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(54) Title: PROTEIN-PROTEIN INTERACTIONS IN ADIPOCYTES

(57) Abstract: The present invention relates to protein-protein interactions in adipocytes. More specifically, the present invention relates to complexes of polypeptides or polynucleotides encoding the polypeptides, fragments of the polypeptides, antiodies to the complexes. Selected Interacting Domains (SID®) which are identified due to the protein-protein interactions, methods for screening drugs for agents which modulate the interaction of proteins and pharmaceutical compositions that are capable of modulating the protein-protein interactions.

MORE AND MORE PROTEIN-PROTEIN INTERACTIONS IN ADIPOCYTE CELLS

FIELD OF THE INVENTION

The present invention relates to proteins that interact with adipocytes. More specifically, the present invention relates to complexes of polypeptides or polynucleotides encoding the polypeptides, fragments of the polypeptides, antibodies to the complexes, Selected Interacting Domains (SID®) which are identified due to the protein-protein interactions, methods for screening drugs for agents which modulate the interaction of proteins and pharmaceutical compositions that are capable of modulating the protein-protein interactions.

In another embodiment the present invention provides a protein-protein interaction map called a PIM® which is available in a report relating to the protein-protein interactions of adipocytes.

In yet another embodiment the present invention relates to the identification of additional proteins in the pathway common to the proteins described therein, such as metabolic pathways.

BACKGROUND

Most biological processes involve specific protein-protein interactions. Protein-protein interactions enable two or more proteins to associate. A large number of non-covalent bonds form between the proteins when two protein surfaces are precisely matched. These bonds account for the specificity of recognition. Thus, protein-protein interactions are involved, for example, in the assembly of enzyme subunits, in antibody-antigen recognition, in the formation of biochemical complexes, in the correct folding of proteins, in the metabolism of proteins, in the transport of proteins, in the localization of proteins, in protein turnover, in first translation modifications, in the core structures of viruses and in signal transduction.

General methodologies to identify interacting proteins or to study these interactions have been developed. Among these methods are the two-hybrid system originally developed by Fields and co-workers and described, for example, in U.S.

Patent Nos. 5,283,173, 5,468,614 and 5,667,973, which are hereby incorporated by reference.

The earliest and simplest two-hybrid system, which acted as basis for development of other versions, is an *in vivo* assay between two specifically constructed proteins. The first protein, known in the art as the "bait protein" is a chimeric protein which binds to a site on DNA upstream of a reporter gene by means of a DNA-binding domain or BD. Commonly, the binding domain is the DNA-binding domain from either Gal4 or native *E. coli* LexA and the sites placed upstream of the reporter are Gal4 binding sites or LexA operators, respectively.

The second protein is also a chimeric protein known as the "prey" in the art. This second chimeric protein carries an activation domain or AD. This activation domain is typically derived from Gal4, from VP16 or from B42.

Besides the two hybrid systems, other improved systems have been developed to detected protein-protein interactions. For example, a two-hybrid plus one system was developed that allows the use of two proteins as bait to screen available cDNA libraries to detect a third partner. This method permits the detection between proteins that are part of a larger protein complex such as the RNA polymerase II holoenzyme and the TFIIH or TFIID complexes. Therefore, this method, in general, permits the detection of ternary complex formation as well as inhibitors preventing the interaction between the two previously defined fused proteins.

Another advantage of the two-hybrid plus one system is that it allows or prevents the formation of the transcriptional activator since the third partner can be expressed from a conditional promoter such as the methionine-repressed Met25 promoter which is positively regulated in medium lacking methionine. The presence of the methionine-regulated promoter provides an excellent control to evaluate the activation or inhibition properties of the third partner due to its "on" and "off" switch for the formation of the transcriptional activator. The three-hybrid method is described, for example in Tirode et al., *The Journal of Biological Chemistry*, **272**, No. 37 pp. 22995-22999 (1997) incorporated herein by reference.

Besides the two and two-hybrid plus one systems, yet another variant is that described in Vidal et al, *Proc. Natl. Sci. 93* pgs. 10315-10320 called the reverse two- and one-hybrid systems where a collection of molecules can be screened that inhibit a specific protein-protein or protein-DNA interactions, respectively.

A summary of the available methodologies for detecting protein-protein interactions is described in Vidal and Legrain, *Nucleic Acids Research* Vol. 27, No. 4 pgs. 919-929 (1999) and Legrain and Selig, FEBS Letters 480 pgs. 32-36 (2000) which references are incorporated herein by reference.

However, the above conventionally used approaches and especially the commonly used two-hybrid methods have their drawbacks. For example, it is known in the art that, more often than not, false positives and false negatives exist in the screening method. In fact, a doctrine has been developed in this field for interpreting the results and in common practice an additional technique such as co-immunoprecipitation or gradient sedimentation of the putative interactors from the appropriate cell or tissue type are generally performed. The methods used for interpreting the results are described by Brent and Finley, Jr. in *Ann. Rev. Genet., 31 pgs. 663-704 (1997).* Thus, the data interpretation is very questionable using the conventional systems.

One method to overcome the difficulties encountered with the methods in the prior art is described in WO99/42612, incorporated herein by reference. This method is similar to the two-hybrid system described in the prior art in that it also uses bait and prey polypeptides. However, the difference with this method is that a step of mating at least one first haploid recombinant yeast cell containing the prey polypeptide to be assayed with a second haploid recombinant yeast cell containing the bait polynucleotide is performed. Of course the person skilled in the art would appreciate that either the first recombinant yeast cell or the second recombinant yeast cell also contains at least one detectable reporter gene that is activated by a polypeptide including a transcriptional activation domain.

The method described in WO99/42612 permits the screening of more prey polynucleotides with a given bait polynucleotide in a single step than in the prior art systems due to the cell to cell mating strategy between haploid yeast cells. Furthermore, this method is more thorough and reproducible, as well as sensitive. Thus, the presence of false negatives and/or false positives is extremely minimal as compared to the conventional prior art methods.

The causes of non-insulin dependent diabetes mellitus (NIDDM) and obesity are often related to defects or problems with adipose tissue. Adipocytes play a critical role in lipid storage and metabolism. Adipocytes also act as endocrine cells to

influence physiological parameters such as insulin sensitivity and body weight (Flier, et al., Cell, (1995) 80: 15-18). For example, the ob gene encodes leptin, an adipocyte secreted endocrine factor (Zhang, et al., Nature (1994) 372: 425-432). Leptin has been shown to reduce body weight and blood glucose in obese, diabetic rodents (Pelleymounter, et al., Science, (1995) 269: 540-543).

NIDDM is treated predominately with insulin. However, insulin is not convenient to use in that it must be injected 2-4 times per day and must be stored properly to prevent loss of efficacy. Other drugs used to treat NIDDM include troglitazone ("Rezulin"), a PPARY agonist, Glucophage and sulfonylureas. Unfortunately, there are safety concerns related to the use of these drugs. The identification of safe, effective, orally available drugs for the treatment of NIDDM would greatly enhance the quality of life of patients who suffer from this disease.

Several adipocyte-specific enzymes and receptors have been shown to be important targets for anti-obesity and anti-diabetic drug discovery. For example, agonists of the β3 adrenergic receptor, which is found predominantly in the adipose tissue in man (Arner, et al., New England Journal of Medicine, (1995) 333: 382-383), have anti-obesity and anti-diabetic properties in rodents and are currently in phase II/III trials in man. The thiazolidinedione class of compounds (TZDs), including troglitazone and ciglitazone, has been shown to improve insulin sensitivity and thereby reduce hyperglycemia and hyperlipidemia conditions in rodents and in humans (Saltiel, et al., Diabetes, (1996) 45: 1661-1669; Sreenan, et al., American Journal Physiol, (1996) 271: E742-E747; Nolan, etal., New England Journal of Medicine, (1994) 331: 1188-1193. Troglitazone ("Rezulin") is approved for use in the U. S. and Japan. Many TZDs, including troglitazone and ciglitazone, are potent activators of Peroxisome Proliferator Activated Receptor gamma (PPARy), a member of the nuclear receptor family of transcription factors (Tontonoz, etal., Cell, (1994) 79: 1147-1156; Lehmann, etal., Journal of Biological Chemistry, (1995) 270: 12953-12955). PPARB, is a key regulator of adipocyte differentiation and is most abundant in adipose tissue.

This shows that it is still needed to explore all mechanisms of adipocyte differentiation and to identify drug targets for metabolism diseases.

The adipocytes (differentiated PAZ6 adipocytes) studied in the present invention are obtained by the method described in the PCT patent application WO96/34100.

SUMMARY OF THE INVENTION

The present invention relates to identifying protein-protein interactions in adipocytes.

The present invention also relates to identifying protein-protein interactions in adipocytes for the development of more effective and better targeted therapeutic applications.

The present invention is also aimed at identifying complexes of polypeptides or polynucleotides encoding the polypeptides and fragments of the polypeptides of adipocytes.

The present invention also relates to identifying antibodies to these complexes of polypeptides or polynucleotides encoding the polypeptides and fragments of the polypeptides of adipocytes including polyclonal, as well as monoclonal antibodies that are used for detection.

The present invention also concerns the identification of selected interacting domains of the polypeptides, called SID® polypeptides.

Furthermore, the present invention concerns the identification of selected interacting domains of the polynucleotides, called SID® polynucleotides.

Also, the present invention relates to generating protein-protein interaction maps called PIM®s.

The present invention also provides a method for screening drugs for agents which modulate the interaction of proteins and pharmaceutical compositions that are capable of modulating the protein-protein interactions in adipocytes.

The present invention also relates to administering the nucleic acids of the present invention via gene therapy.

Also, the present invention provides protein chips or protein microarrays.

In another embodiment, the present invention provides a report in, for example paper, electronic and/or digital forms, concerning the protein-protein interactions, the modulating compounds and the like as well as a PIM®.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a schematic representation of the pB1 plasmid.

Fig. 2 is a schematic representation of the pB5 plasmid.

Fig. 3 is a schematic representation of the pB6 plasmid.

Fig. 4 is a schematic representation of the pB13 plasmid.

Fig. 5 is a schematic representation of the pB14 plasmid.

Fig. 6 is a schematic representation of the pB20 plasmid.

Fig. 7 is a schematic representation of the pP1 plasmid.

Fig. 8 is a schematic representation of the pP2 plasmid.

Fig. 9 is a schematic representation of the pP3 plasmid.

Fig. 10 is a schematic representation of the pP6 plasmid.

Fig. 11 is a schematic representation of the pP7 plasmid.

Fig. 12 is a schematic representation of vectors expressing the T25 fragment.

Fig. 13 is a schematic representation of vectors expressing the T18 fragment.

Fig. 14 is a schematic representation of various vectors of pCmAHL1, pT25 and pT18.

Fig. 15 is a schematic representation identifying the SID®'s of adipocytes. In this figure the "Full-length prey protein" is the Open Reading Frame (ORF) or coding sequence (CDS) where the identified prey polypeptides are included. The Selected Interaction Domain (SID®) is determined by the commonly shared polypeptide domain of every selected prey fragment.

Fig. 16 is a protein map (PIM®).

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

As used herein the terms "polynucleotides", "nucleic acids" and "oligonucleotides" are used interchangeably and include, but are not limited to RNA, DNA, RNA/DNA sequences of more than one nucleotide in either single chain or duplex form. The polynucleotide sequences of the present invention may be prepared from any known method including, but not limited to, any synthetic method, any recombinant method, any *ex vivo* generation method and the like, as well as combinations thereof.

Polynucleotides which can hybridize to any of the polynucleotides discussed above are also covered by the present invention. Such polynucleotides are referred to herein as "hybridizing" polynucleotides. Hybridizing polynucleotides can be useful as probes or primers, for example.

According to an embodiment of the present invention, such hybridizing molecules are at least 10 nucleotides in length. According to another embodiment, such hybridizing molecules are at least 25 or at least 50 nucleotides in length.

In an embodiment, the hybridizing molecules will hybridize to any of the polynucleotides of the present invention under stringent hybridization conditions. One example of stringent hybridization conditions is where attempted hybridization is carried out at a temperature of from about 35°C to about 65°C using a salt solution which is about 0.9 molar. However, the skilled person will be able to vary such conditions as appropriate in order to take into account variables such as probe length, base composition, type of ions present, etc.

The term "polypeptide" means herein a polymer of amino acids having no specific length. Thus, peptides, oligopeptides and proteins are included in the definition of "polypeptide" and these terms are used interchangeably throughout the specification, as well as in the claims. The term "polypeptide" does not exclude post-translational modifications such as polypeptides having covalent attachment of glycosyl groups, aceteyl groups, phosphate groups, lipid groups and the like. Also encompassed by this definition of "polypeptide" are homologs thereof.

By the term "homologs" is meant structurally similar genes contained within a given species, orthologs are functionally equivalent genes from a given species or strain, as determined for example, in a standard complementation assay. Thus, a polypeptide of interest can be used not only as a model for identifying similiar genes in given strains, but also to identify homologs and orthologs of the polypeptide of interest in other species. The orthologs, for example, can also be identified in a conventional complementation assay. In addition or alternatively, such orthologs can be expected to exist in bacteria (or other kind of cells) in the same branch of the phylogenic tree, as set forth, for example, at ftp://ftp.cme.msu.edu/pub/rdp/SSU-rRNA/SSU/Prok.phylo.

As used herein the term "prey polynucleotide" means a chimeric polynucleotide encoding a polypeptide comprising (i) a specific domain; and (ii) a polypeptide that is to be tested for interaction with a bait polypeptide. The specific domain is preferably a transcriptional activating domain.

As used herein, a "bait polynucleotide" is a chimeric polynucleotide encoding a chimeric polypeptide comprising (i) a complementary domain; and (ii) a polypeptide

that is to be tested for interaction with at least one prey polypeptide. The complementary domain is preferably a DNA-binding domain that recognizes a binding site that is further detected and is contained in the host organism.

As used herein "complementary domain" is meant a functional constitution of the activity when bait and prey are interacting; for example, enzymatic activity.

As used herein "specific domain" is meant a functional interacting activation domain that may work through different mechanisms by interacting directly or indirectly through intermediary proteins with RNA polymerase II or III-associated proteins in the vicinity of the transcription start site.

As used herein the term "complementary" means that, for example, each base of a first polynucleotide is paired with the complementary base of a second polynucleotide whose orientation is reversed. The complementary bases are A and T (or A and U) or C and G.

The term "sequence identity" refers to the identity between two peptides or between two nucleic acids. Identity between sequences can be determined by comparing a position in each of the sequences which may be aligned for the purposes of comparison. When a position in the compared sequences is occupied by the same base or amino acid, then the sequences are identical at that position. A degree of sequence identity between nucleic acid sequences is a function of the number of identical nucleotides at positions shared by these sequences. A degree of identity between amino acid sequences is a function of the number of identical amino acid sequences that are shared between these sequences. Since two polypeptides may each (i) comprise a sequence (i.e., a portion of a complete polynucleotide sequence) that is similar between two polynucleotides, and (ii) may further comprise a sequence that is divergent between two polynucleotides, sequence identity comparisons between two or more polynucleotides over a "comparison window" refers to the conceptual segment of at least 20 contiguous nucleotide positions wherein a polynucleotide sequence may be compared to a reference nucleotide sequence of at least 20 contiguous nucleotides and wherein the portion of the polynucleotide sequence in the comparison window may comprise additions or deletions (i.e., gaps) of 20 percent or less compared to the reference sequence (which does not comprise additions or deletions) for optimal alignment of the two sequences.

To determine the percent identity of two amino acids sequences or two nucleic acid sequences, the sequences are aligned for optimal comparison. For example, gaps can be introduced in the sequence of a first amino acid sequence or a first nucleic acid sequence for optimal alignment with the second amino acid sequence or second nucleic acid sequence. The amino acid residues or nucleotides at corresponding amino acid positions or nucleotide positions are then compared. When a position in the first sequence is occupied by the same amino acid residue or nucleotide as the corresponding position in the second sequence, the molecules are identical at that position.

The percent identity between the two sequences is a function of the number of identical positions shared by the sequences. Hence % identity = number of identical positions / total number of overlapping positions X 100.

In this comparison the sequences can be the same length or can be different in length. Optimal alignment of sequences for determining a comparison window may be conducted by the local homology algorithm of Smith and Waterman (*J. Theor. Biol.,* 91 (2) pgs. 370-380 (1981), by the homology alignment algorithm of Needleman and Wunsch, *J. Miol. Biol.*, 48(3) pgs. 443-453 (1972), by the search for similarity via the method of Pearson and Lipman, *PNAS, USA*, 85(5) pgs. 2444-2448 (1988), by computerized implementations of these algorithms (GAP, BESTFIT, FASTA and TFASTA in the Wisconsin Genetics Software Package Release 7.0, Genetic Computer Group, 575, Science Drive, Madison, Wisconsin) or by inspection. The best alignment (i.e., resulting in the highest percentage of identity over the comparison window) generated by the various methods is selected.

The term "sequence identity" means that two polynucleotide or polypeptide sequences are identical (i.e., on a nucleotide by nucleotide or an amino acid by amino acid basis) over the window of comparison. The term "percentage of sequence identity" is calculated by comparing two optimally aligned sequences over the window of comparison, determining the number of positions at which the identical nucleic acid base (e.g., A, T, C, G, U, or I) occurs in both sequences to yield the number of matched positions, dividing the number of matched positions by the total number of positions in the window of comparison (i.e., the window size) and multiplying the result by 100 to yield the percentage of sequence identity. The same process can be applied to polypeptide sequences.

The percentage of sequence identity of a nucleic acid sequence or an amino acid sequence can also be calculated using BLAST software (Version 2.06 of September 1998) with the default or user defined parameter.

The term "sequence similarity" means that amino acids can be modified while retaining the same function. It is known that amino acids are classified according to the nature of their side groups and some amino acids such as the basic amino acids can be interchanged for one another while their basic function is maintained.

The term "isolated" as used herein means that a biological material such as a nucleic acid or protein has been removed from its original environment in which it is naturally present. For example, a polynucleotide present in a plant, mammal or animal is present in its natural state and is not considered to be isolated. The same polynucleotide separated from the adjacent nucleic acid sequences in which it is naturally inserted in the genome of the plant or animal is considered as being "isolated."

The term "isolated" is not meant to exclude artificial or synthetic mixtures with other compounds, or the presence of impurities which do not interfere with the biological activity and which may be present, for example, due to incomplete purification, addition of stabilizers or mixtures with pharmaceutically acceptable excipients and the like.

"Isolated polypeptide" or "isolated protein" as used herein means a polypeptide or protein which is substantially free of those compounds that are normally associated with the polypeptide or protein in a naturally state such as other proteins or polypeptides, nucleic acids, carbohydrates, lipids and the like.

The term "purified" as used herein means at least one order of magnitude of purification is achieved, preferably two or three orders of magnitude, most preferably four or five orders of magnitude of purification of the starting material or of the natural material. Thus, the term "purified" as utilized herein does not mean that the material is 100% purified and thus excludes any other material.

The term "variants" when referring to, for example, polynucleotides encoding a polypeptide variant of a given reference polypeptide are polynucleotides that differ from the reference polypeptide but generally maintain their functional characteristics of the reference polypeptide. A variant of a polynucleotide may be a naturally occurring allelic variant or it may be a variant that is known naturally not to occur.

Such non-naturally occurring variants of the reference polynucleotide can be made by, for example, mutagenesis techniques, including those mutagenesis techniques that are applied to polynucleotides, cells or organisms.

Generally, differences are limited so that the nucleotide sequences of the reference and variant are closely similar overall and, in many regions identical. Variants of polynucleotides according to the present invention include, but are not limited to, nucleotide sequences which are at least 95% identical after alignment to the reference polynucleotide encoding the reference polypeptide. These variants can also have 96%, 97%, 98% and 99.999% sequence identity to the reference polynucleotide.

Nucleotide changes present in a variant polynucleotide may be silent, which means that these changes do not alter the amino acid sequences encoded by the reference polynucleotide.

Substitutions, additions and/or deletions can involve one or more nucleic acids. Alterations can produce conservative or non-conservative amino acid substitutions, deletions and/or additions.

Variants of a prey or a SID® polypeptide encoded by a variant polynucleotide can possess a higher affinity of binding and/or a higher specificity of binding to its protein or polypeptide counterpart, against which it has been initially selected. In another context, variants can also loose their ability to bind to their protein or polypeptide counterpart.

By "fragment of a polynucleotide" or "fragment of a SID® polynucleotide" is meant that fragments of these sequences have at least 12 consecutive nucleotides, or between 12 and 5,000 consecutive nucleotides, or between 12 and 10,000 consecutive nucleotides, or between 12 and 20,000 consecutive nucleotides.

By "fragment of a polypeptide" or "fragment of a SID® polypeptide" is meant that fragments of these sequences have at least 4 consecutive amino acids, or between 4 and1,700 consecutive amino acids, or between 4 and 3,300 consecutive amino acids, or between 4 and 6,600 consecutive amino acids.

By "anabolic pathway" is meant a reaction or series of reactions in a metabolic pathway that synthesize complex molecules from simpler ones, usually requiring the input of energy. An anabolic pathway is the opposite of a catabolic pathway.

As used herein, a "catabolic pathway" is a series of reactions in a metabolic pathway that break down complex compounds into simpler ones, usually releasing energy in the process. A catabolic pathway is the opposite of an anabolic pathway.

As used herein, "drug metabolism" is meant the study of how drugs are processed and broken down by the body. Drug metabolism can involve the study of enzymes that break down drugs, the study of how different drugs interact within the body and how diet and other ingested compounds affect the way the body processes drugs.

As used herein, "metabolism" means the sum of all of the enzyme-catalyzed reactions in living cells that transform organic molecules.

By "secondary metabolism" is meant pathways producing specialized metabolic products that are not found in every cell.

As used herein, "SID®" means a Selected Interacting Domain and is identified as follows: for each bait polypeptide screened, selected prey polypeptides are compared. Overlapping fragments in the same ORF or CDS define the selected interacting domain.

As used herein the term "PIM®" means a protein-protein interaction map. This map is obtained from data acquired from a number of separate screens using different bait polypeptides and is designed to map out all of the interactions between the polypeptides.

The term "affinity of binding", as used herein, can be defined as the affinity constant Ka when a given SID® polypeptide of the present invention which binds to a polypeptide and is the following mathematical relationship:

$$Ka = \frac{[\text{SID®/polypeptide complex}]}{[\text{free SID®}]\,[\text{free polypeptide}]}$$

herein [free SID®], [free polypeptide] and [SID®/polypeptide complex] consist of the concentrations at equilibrium respectively of the free SID® polypeptide, of the free polypeptide onto which the SID® polypeptide binds and of the complex formed between SID® polypeptide and the polypeptide onto which said SID® polypeptide specifically binds.

The affinity of a SID® polypeptide of the present invention or a variant thereof for its polypeptide counterpart can be assessed, for example, on a Biacore™ apparatus

marketed by Amersham Pharmacia Biotech Company such as described by Szabo *et al.* (*Curr Opin Struct Biol* **5** pgs. 699-705 (1995)) and by Edwards and Leartherbarrow (*Anal. Biochem* 246 pgs. 1-6 (1997)).

As used herein the phrase "at least the same affinity" with respect to the binding affinity between a SID® polypeptide of the present invention to another polypeptide means that the Ka is identical or can be at least two-fold, at least three-fold or at least five fold greater than the Ka value of reference.

As used herein, the term "modulating compound" means a compound that inhibits or stimulates or can act on another protein which can inhibit or stimulate the protein-protein interaction of a complex of at least two polypeptides or the protein-protein interaction of at least two polypeptides.

More specifically, the present invention comprises complexes of polypeptides or polynucleotides encoding the polypeptides composed of a bait polypeptide, or a bait polynucleotide encoding a bait polypeptide and a prey polypeptide or a prey polynucleotide encoding a prey polypeptide. The prey polypeptide or prey polynucleotide encoding the prey polypeptide is capable of interacting with a bait polypeptide of interest in various hybrid systems.

As described in the Background of the present invention, there are various methods known in the art to identify prey polypeptides that interact with bait polypeptides of interest. These methods include, but are not limited to, generic two-hybrid systems as described by Fields *et al.* (*Nature*, 340:245-246 (1989)) and more specifically in U.S. Patent Nos. 5,283,173, 5,468,614 and 5,667,973, which are hereby incorporated by reference; the reverse two-hybrid system described by Vidal *et al.* (*supra*); the two plus one hybrid method described, for example, in Tirode *et al.* (*supra*); the yeast forward and reverse 'n'-hybrid systems as described in Vidal and Legrain (*supra*); the method described in WO 99/42612; those methods described in Legrain *et al.* (*FEBS Letters* 480 pgs. 32-36 (2000)) and the like.

The present invention is not limited to the type of method utilized to detect protein-protein interactions and therefore any method known in the art and variants thereof can be used. It is however better to use the method described in WO99/42612 or WO00/66722, both references incorporated herein by reference due to the methods' sensitivity, reproducibility and reliability.

Protein-protein interactions can also be detected using complementation assays such as those described by Pelletier *et al.* at http://www.abrf.org/JBT/Articles/JBT0012/jbt0012.html, WO 00/07038 and WO98/34120. Although the above methods are described for applications in the yeast system, the present invention is not limited to detecting protein-protein interactions using yeast, but also includes similar methods that can be used in detecting protein-protein interactions in, for example, mammalian systems as described, for example in Takacs *et al.* (*Proc. Natl. Acad. Sci., USA*, **90** (21):10375-79 (1993)) and Vasavada *et al.* (*Proc. Natl. Acad. Sci., USA*, 88 (23):10686-90 (1991)), as well as a bacterial two-hybrid system as described in Karimova *et al.* (1998), WO99/28746, WO 00/66722 and Legrain *et al.* (*FEBS Letters,* **480** pgs. 32-36 (2000)).

The above-described methods are limited to the use of yeast, mammalian cells and *Escherichia coli* cells, the present invention is not limited in this manner. Consequently, mammalian and typically human cells, as well as bacterial, yeast, fungus, insect, nematode and plant cells are encompassed by the present invention and may be transfected by the nucleic acid or recombinant vector as defined herein. Examples of suitable cells include, but are not limited to, VERO cells, HELA cells such as ATCC No. CCL2, CHO cell lines such as ATCC No. CCL61, COS cells such as COS-7 cells and ATCC No. CRL 1650 cells, W138, BHK, HepG2, 3T3 such as ATCC No. CRL6361, A549, PC12, K562 cells, 293 cells, Sf9 cells such as ATCC No. CRL1711 and Cv1 cells such as ATCC No. CCL70.

Other suitable cells that can be used in the present invention include, but are not limited to, prokaryotic host cells strains such as *Escherichia coli,* (e.g., strain DH5-α), *Bacillus subtilis*, *Salmonella typhimurium*, or strains of the genera of *Pseudomonas*, *Streptomyces* and *Staphylococcus*.

Further suitable cells that can be used in the present invention include yeast cells such as those of *Saccharomyces* such as *Saccharomyces cerevisiae*.

The bait polynucleotide, as well as the prey polynucleotide can be prepared according to the methods known in the art such as those described above in the publications and patents reciting the known method *per se*.

The bait and the prey polynucleotide of the present invention is obtained from adipocyte's cDNA (human differentiated PAZ6 adipocytes), or variants of cDNA fragment from a library of human differentiated PAZ6 adipocytes, and fragments from

the genome or transcriptome of human differentiated PAZ6 adipocytes ranging from about 12 to about 5,000, or about 12 to about 10,000 or from about 12 to about 20,000. The prey polynucleotide is then selected, sequenced and identified.

A human differentiated PAZ6 adipocytes prey library is prepared from the human differentiated PAZ6 adipocytes and constructed in the specially designed prey vector pP6 as shown in Figure 10 after ligation of suitable linkers such that every cDNA insert is fused to a nucleotide sequence in the vector that encodes the transcription activation domain of a reporter gene. Any transcription activation domain can be used in the present invention. Examples include, but are not limited to, Gal4,YP16, B42, His and the like. Toxic reporter genes, such as CAT^R, CYH2, CYH1, URA3, bacterial and fungi toxins and the like can be used in reverse two-hybrid systems.

The polypeptides encoded by the nucleotide inserts of the human differentiated PAZ6 adipocytes prey library thus prepared are termed "prey polypeptides" in the context of the presently described selection method of the prey polynucleotides.

The bait polynucleotides can be inserted in bait plasmid pB6 or pB5 as illustrated in Figures 3 and 2, respectively.. The bait polynucleotide insert is fused to a polynucleotide encoding the binding domain of, for example, the Gal4 DNA binding domain and the shuttle expression vector is used to transform cells.

The bait polynucleotides used in the present invention are described in Table 1.

As stated above, any cells can be utilized in transforming the bait and prey polynucleotides of the present invention including mammalian cells, bacterial cells, yeast cells, insect cells and the like.

In an embodiment, the present invention identifies protein-protein interactions in yeast. In using known methods a prey positive clone is identified containing a vector which comprises a nucleic acid insert encoding a prey polypeptide which binds to a bait polypeptide of interest. The method in which protein-protein interactions are identified comprises the following steps:

mating at least one first haploid recombinant yeast cell clone from a recombinant yeast cell clone library that has been transformed with a plasmid containing the prey polynucleotide to be assayed with a second haploid recombinant yeast cell clone transformed with a plasmid containing a bait polynucleotide encoding for the bait polypeptide;

cultivating diploid cell clones obtained in step i) on a selective medium; and

selecting recombinant cell clones which grow on the selective medium.

This method may further comprise the step of:

characterizing the prey polynucleotide contained in each recombinant cell clone which is selected in step iii).

In yet another embodiment of the present invention, *in lieu* of yeast, *Escherichia coli* is used in a bacterial two-hybrid system, which encompasses a similar principle to that described above for yeast, but does not involve mating for characterizing the prey polynucleotide.

In yet another embodiment of the present invention, mammalian cells and a method similar to that described above for yeast for characterizing the prey polynucleotide are used.

By performing the yeast, bacterial or mammalian two-hybrid system, it is possible to identify for one particular bait an interacting prey polypeptide. The prey polynucleotide that has been selected by testing the library of preys in a screen using the two-hybrid, two plus one hybrid methods and the like, encodes the polypeptide interacting with the protein of interest.

The present invention is also directed, in a general aspect, to a complex of polypeptides, polynucleotides encoding the polypeptides composed of a bait polypeptide or bait polynucleotide encoding the bait polypeptide and a prey polypeptide or prey polynucleotide encoding the prey polypeptide capable of interacting with the bait polypeptide of interest. These complexes are identified in Table 2.

In another aspect, the present invention relates to a complex of polynucleotides consisting of a first polynucleotide, or a fragment thereof, encoding a prey polypeptide that interacts with a bait polypeptide and a second polynucleotide or a fragment thereof. This fragment has at least 12 consecutive nucleotides, but can have between 12 and 5,000 consecutive nucleotides, or between 12 and 10,000 consecutive nucleotides or between 12 and 20,000 consecutive nucleotides.

The complexes of the two interacting polypeptides listed in Table 2 and the sets of two polynucleotides encoding these polypeptides also form part of the present invention.

In yet another embodiment, the present invention relates to an isolated complex of at least two polypeptides encoded by two polynucleotides wherein said two

polypeptides are associated in the complex by affinity binding and are depicted in columns 1 and 4 of Table 2.

In yet another embodiment, the present invention relates to an isolated complex comprising at least a polypeptide as described in column 1 of Table 2 and a polypeptide as described in column 4 of Table 2. The present invention is not limited to these polypeptide complexes alone but also includes the isolated complex of the two polypeptides in which fragments and/or homologous polypeptides exhibit at least 95% sequence identity, as well as from 96% sequence identity to 99.999% sequence identity.

Also encompassed in another embodiment of the present invention is an isolated complex in which the SID® of the prey polypeptides encoded by SEQ ID Nos. 34 to 771 in Table 3 form the isolated complex.

Besides the isolated complexes described above, nucleic acids coding for a Selected Interacting Domain (SID®) polypeptide or a variant thereof or any of the nucleic acids set forth in Table 3 can be inserted into an expression vector which contains the necessary elements for the transcription and translation of the inserted protein-coding sequence. Such transcription elements include a regulatory region and a promoter. Thus, the nucleic acid which may encode a marker compound of the present invention is operably linked to a promoter in the expression vector. The expression vector may also include a replication origin.

A wide variety of host/expression vector combinations are employed in expressing the nucleic acids of the present invention. Useful expression vectors that can be used include, for example, segments of chromosomal, non-chromosomal and synthetic DNA sequences. Suitable vectors include, but are not limited to, derivatives of SV40 and pcDNA and known bacterial plasmids such as col El, pCR1, pBR322, pMal-C2, pET, pGEX as described by Smith et al [need cite 1988], pMB9 and derivatives thereof, plasmids such as RP4, phage DNAs such as the numerous derivatives of phage l such as NM989, as well as other phage DNA such as M13 and filamentous single stranded phage DNA; yeast plasmids such as the 2 micron plasmid or derivatives of the 2m plasmid, as well as centomeric and integrative yeast shuttle vectors; vectors useful in eukaryotic cells such as vectors useful in insect or mammalian cells; vectors derived from combinations of plasmids and phage DNAs,

such as plasmids that have been modified to employ phage DNA or the expression control sequences; and the like.

For example in a baculovirus expression system, both non-fusion transfer vectors, such as, but not limited to pVL941 (*Bam*HI cloning site Summers, pVL1393 (*Bam*HI, *Sma*I, *Xba*I, *Eco*RI, *Not*I, *Xma*III, *Bg*III and *Pst*I cloning sites; Invitrogen) pVL1392 (*Bg*III, *Pst*I, *Not*I, *Xma*III, *Eco*RI, *XbaI*I, *Sma*I and *Bam*HI cloning site; Summers and Invitrogen) and pBlue*Bac*III (*Bam*HI, *BglI*I, *Pst*I, *Nco*I and *Hind*III cloning site, with blue/white recombinant screening, Invitrogen), and fusion transfer vectors such as, but not limited to, pAc700(*Bam*HI and *Kpn*I cloning sites, in which the *Bam*HI recognition site begins with the initiation codon; Summers), pAc701 and pAc70-2 (same as pAc700, with different reading frames), pAc360 (*Bam*HI cloning site 36 base pairs downstream of a polyhedrin initiation codon; Invitrogen (195)) and pBlueBacHisA, B, C (three different reading frames with *Bam*HI, *BglI*I, *Pst*I, *Nco*I and *Hind*III cloning site, an N-terminal peptide for ProBond purification and blue/white recombinant screening of plaques; Invitrogen (220) can be used.

Mammalian expression vectors contemplated for use in the invention include vectors with inducible promoters, such as the dihydrofolate reductase promoters, any expression vector with a DHFR expression cassette or a DHFR/methotrexate co-amplification vector such as pED (*Pst*I, *SalI*, SbaI, SmaI and *Eco*RI cloning sites, with the vector expressing both the cloned gene and DHFR; Kaufman, 1991). Alternatively a glutamine synthetase/methionine sulfoximine co-amplification vector, such as pEE14 (*Hind*III, *XbaI*I, *Sma*I, *Sba*I, *Eco*RI and *BclI* cloning sites in which the vector expresses glutamine synthetase and the cloned gene; Celltech). A vector that directs episomal expression under the control of the Epstein Barr Virus (EBV) or nuclear antigen (EBNA) can be used such as pREP4 (*Bam*HI, *SfiI*, *Xho*I, *Not*I, *Nhe*I, *Hind*III, *Nhe*I, *Pvu*II and *Kpn*I cloning sites, constitutive RSV-LTR promoter, hygromycin selectable marker; Invitrogen) pCEP4 (*Bam*HI, *SfiI*, *Xho*I, *Not*I, *Nhe*I, *Hind*III, *Nhe*I, *Pvu*II and *Kpn*I cloning sites, constitutive hCMV immediate early gene promoter, hygromycin selectable marker; Invitrogen), pMEP4 (*Kpn*I, *Pvu*I, *Nhe*I, *Hind*III, *Not*I, *Xho*I, *SfiI*, *Bam*HI cloning sites, inducible methallothionein IIa gene promoter, hygromycin selectable marker, Invitrogen), pREP8 (*Bam*HI, *Xho*I, *Not*I, *Hind*III, *Nhe*I and *Kpn*I cloning sites, RSV-LTR promoter, histidinol selectable marker; Invitrogen), pREP9 (*Kpn*I, *Nhe*I, *Hind*III, *Not*I, *Xho*I, *SfiI*, *Bam*HI cloning sites, RSV-

LTR promoter, G418 selectable marker; Invitrogen), and pEBVHis (RSV-LTR promoter, hygromycin selectable marker, N-terminal peptide purifiable via ProBond resin and cleaved by enterokinase; Invitrogen).

Selectable mammalian expression vectors for use in the invention include, but are not limited to, pRc/CMV (*Hind*III, *Bst*XI, *Not*I, *Sba*I and *Apa*I cloning sites, G418 selection, Invitrogen), pRc/RSV (*Hind*II, *Spe*I, *Bst*XI, *Not*I, *Xba*I cloning sites, G418 selection, Invitrogen) and the like. Vaccinia virus mammalian expression vectors (see, for example Kaufman 1991 that can be used in the present invention include, but are not limited to, pSC11 (*Sma*I cloning site, TK- and β-gal selection), pMJ601 (*Sal*I, *Sma*I, *Afl*I, *Nar*I, *Bsp*MII, *Bam*HI, *Apa*I, *Nhe*I, *Sac*II, *Kpn*I and *Hind*III cloning sites; TK- and β-gal selection), pTKgptF1S (*Eco*RI, *Pst*I, *Sal*II, *Acc*I, *Hind*II, *Sba*I, *Bam*HI and *Hpa* cloning sites, TK or XPRT selection) and the like.

Yeast expression systems that can also be used in the present include, but are not limited to, the non-fusion pYES2 vector (*Xba*I, *Sph*I, *Sho*I, *Not*I, *Gst*XI, *Eco*RI, *Bst*XI, *Bam*HI, *Sac*I, *Kpn*I and *Hind*III cloning sites, Invitrogen), the fusion pYESHisA, B, C (*Xbal*I, *Sph*I, *Sho*I, *Not*I, *Bst*XI, *Eco*RI, *Bam*HI, *Sac*I, *Kpn*I and *Hind*III cloning sites, N-terminal peptide purified with ProBond resin and cleaved with enterokinase; Invitrogen), pRS vectors and the like.

Consequently, mammalian and typically human cells, as well as bacterial, yeast, fungi, insect, nematode and plant cells an used in the present invention and may be transfected by the nucleic acid or recombinant vector as defined herein.

Examples of suitable cells include, but are not limited to, VERO cells, HELA cells such as ATCC No. CCL2, CHO cell lines such as ATCC No. CCL61, COS cells such as COS-7 cells and ATCC No. CRL 1650 cells, W138, BHK, HepG2, 3T3 such as ATCC No. CRL6361, A549, PC12, K562 cells, 293 cells, Sf9 cells such as ATCC No. CRL1711 and Cv1 cells such as ATCC No. CCL70.

Other suitable cells that can be used in the present invention include, but are not limited to, prokaryotic host cells strains such as *Escherichia coli,* (e.g., strain DH5-α), *Bacillus subtilis*, *Salmonella typhimurium*, or strains of the genera of *Pseudomonas*, *Streptomyces* and *Staphylococcus.*

Further suitable cells that can be used in the present invention include yeast cells such as those of *Saccharomyces* such as *Saccharomyces cerevisiae.*

Besides the specific isolated complexes, as described above, the present invention relates to and also encompasses SID® polynucleotides. As explained above, for each bait polypeptide, several prey polypeptides may be identified by comparing and selecting the intersection of every isolated fragment that are included in the same polypeptide. Thus the SID® polynucleotides of the present invention are represented by the shared nucleic acid sequences of SEQ ID Nos. 34 to 771 encoding the SID® polypeptides of SEQ ID Nos. 772 to 1509 in columns 5 and 7 of Table 3, respectively.

The present invention is not limited to the SID® sequences as described in the above paragraph, but also includes fragments of these sequences having at least 12 consecutive nucleic acids, between 12 and 5,000 consecutive nucleic acids and between 12 and 10,000 consecutive nucleic acids and between 12 and 20,000 consecutive nucleic acids, as well as variants thereof. The fragments or variants of the SID® sequences possess at least the same affinity of binding to its protein or polypeptide counterpart, against which it has been initially selected. Moreover this variant and/or fragments of the SID® sequences alternatively can have between 95% and 99.999% sequence identity to its protein or polypeptide counterpart.

According to the present invention variants of polynucleotide or polypeptides can be created by known mutagenesis techniques either *in vitro* or *in vivo*. Such a variant can be created such that it has altered binding characteristics with respect to the target protein and more specifically that the variant binds the target sequence with either higher or lower affinity.

Polynucleotides that are complementary to the above sequences which include the polynucleotides of the SID®'s, their fragments, variants and those that have specific sequence identity are also included in the present invention.

The polynucleotide encoding the SID® polypeptide, fragment or variant thereof can also be inserted into recombinant vectors which are described in detail above.

The present invention also relates to a composition comprising the above-mentioned recombinant vectors containing the SID® polynucleotides in Table 3, fragments or variants thereof, as well as recombinant host cells transformed by the vectors. The recombinant host cells that can be used in the present invention were discussed in greater detail above.

The compositions comprising the recombinant vectors can contain physiological acceptable carriers such as diluents, adjuvants, excipients and any vehicle in which this composition can be delivered therapeutically and can include, but is are not limited to sterile liquids such as water and oils.

In yet another embodiment, the present invention relates to a method of selecting modulating compounds, as well as the modulating molecules or compounds themselves which may be used in a pharmaceutical composition. These modulating compounds may act as a cofactor, as an inhibitor, as antibodies, as tags, as a competitive inhibitor, as an activator or alternatively have agonistic or antagonistic activity on the protein-protein interactions.

The activity of the modulating compound does not necessarily, for example, have to be 100% activation or inhibition. Indeed, even partial activation or inhibition can be achieved that is of pharmaceutical interest.

The modulating compound can be selected according to a method which comprises:

cultivating a recombinant host cell with a modulating compound on a selective medium and a reporter gene the expression of which is toxic for said recombinant host cell wherein said recombinant host cell is transformed with two vectors:

wherein said first vector comprises a polynucleotide encoding a first hybrid polypeptide having a DNA binding domain;

wherein said second vector comprises a polynucleotide encoding a second hybrid polypeptide having a transcriptional activating domain that activates said toxic reporter gene when the first and second hybrid polypeptides interact;

selecting said modulating compound which inhibits or permits the growth of said recombinant host cell.

Thus, the present invention relates to a modulating compound that inhibits the protein-protein interactions of a complex of two polypeptides of columns 1 and 4 of Table 2.

The present invention also relates to a modulating compound that activates the protein-protein interactions of a complex of two polypeptides of columns 1 and 4 of Table 2.

In yet another embodiment, the present invention relates to a method of selecting a modulating compound, which modulating compound inhibits the interactions of two polypeptides of columns 1 and 4 of Table 2. This method comprises:

cultivating a recombinant host cell with a modulating compound on a selective medium and a reporter gene the expression of which is toxic for said recombinant host cell wherein said recombinant host cell is transformed with two vectors:

wherein said first vector comprises a polynucleotide encoding a first hybrid polypeptide having a first domain of an enzyme;

wherein said second vector comprises a polynucleotide encoding a second hybrid polypeptide having an enzymatic transcriptional activating domain that activates said toxic reporter gene when the first and second hybrid polypeptides interact;

selecting said modulating compound which inhibits or permits the growth of said recombinant host cell.

In the two methods described above any toxic reporter gene can be utilized including those reporter genes that can be used for negative selection including the URA3 gene, the CYH1 gene, the CYH2 gene and the like.

In yet another embodiment, the present invention provides a kit for screening a modulating compound. This kit comprises a recombinant host cell which comprises a reporter gene the expression of which is toxic for the recombinant host cell. The host cell is transformed with two vectors. The first vector comprises a polynucleotide encoding a first hybrid polypeptide having a DNA binding domain; and the second vector comprises a polynucleotide encoding a second hybrid polypeptide having a transcriptional activating domain that activates said toxic reporter gene when the first and second hybrid polypeptides interact.

In yet another embodiment, a kit is provided for screening a modulating compound by providing a recombinant host cell, as described in the paragraph above, but instead of a DNA binding domain, the first vector encodes a first hybrid polypeptide containing a first domain of a protein. The second vector encodes a second polypeptide containing a second part of a complementary domain of a protein that activates the toxic reporter gene when the first and second hybrid polypeptides interact.

In the selection methods described above, the activating domain can be p42 Gal 4, YP16 (HSV) and the DNA-binding domain can be derived from Gal4 or Lex A. The protein or enzyme can be adenylate cyclase, guanylate cyclase, DHFR and the like. Examples of modulating compounds are set forth in Table 3.

In yet another embodiment, the present invention relates to a pharmaceutical composition comprising the modulating compounds for preventing or treating obesity or metabolic diseases in a human or animal, most preferably in a mammal.

This pharmaceutical composition comprises a pharmaceutically acceptable amount of the modulating compound. The pharmaceutically acceptable amount can be estimated from cell culture assays. For example, a dose can be formulated in animal models to achieve a circulating concentration range that includes or encompasses a concentration point or range having the desired effect in an *in vitro* system. This information can thus be used to accurately determine the doses in other mammals, including humans and animals.

The therapeutically effective dose refers to that amount of the compound that results in amelioration of symptoms in a patient. Toxicity and therapeutic efficacy of such compounds can be determined by standard pharmaceutical procedures in cell cultures or in experimental animals. For example, the LD50 (the dose lethal to 50% of the population) as well as the ED50 (the dose therapeutically effective in 50% of the population) can be determined using methods known in the art. The dose ratio between toxic and therapeutic effects is the therapeutic index which can be expressed as the ratio between LD 50 and ED50 compounds that exhibit high therapeutic indexes.

The data obtained from the cell culture and animal studies can be used in formulating a range of dosage of such compounds which lies preferably within a range of circulating concentrations that include the ED50 with little or no toxicity.

The pharmaceutical composition can be administered via any route such as locally, orally, systemically, intravenously, intramuscularly, mucosally, using a patch and can be encapsulated in liposomes, microparticles, microcapsules, and the like. The pharmaceutical composition can be embedded in liposomes or even encapsulated.

Any pharmaceutically acceptable carrier or adjuvant can be used in the pharmaceutical composition. The modulating compound will be preferably in a

soluble form combined with a pharmaceutically acceptable carrier. The techniques for formulating and administering these compounds can be found in "*Remington's Pharmaceutical Sciences*" Mack Publication Co., Easton, PA, latest edition.

The mode of administration optimum dosages and galenic forms can be determined by the criteria known in the art taken into account the seriousness of the general condition of the mammal, the tolerance of the treatment and the side effects.

The present invention also relates to a method of treating or preventing obesity or metabolic diseases in a human or mammal in need of such treatment. This method comprises administering to a mammal in need of such treatment a pharmaceutically effective amount of a modulating compound which binds to a targeted mammalian or human or adipocyte protein. In a preferred embodiment, the modulating compound is a polynucleotide which may be placed under the control of a regulatory sequence which is functional in the mammal or human.

In yet another embodiment, the present invention relates to a pharmaceutical composition comprising a SID® polypeptide, a fragment or variant thereof. The SID® polypeptide, fragment or variant thereof can be used in a pharmaceutical composition provided that it is endowed with highly specific binding properties to a bait polypeptide of interest.

The original properties of the SID® polypeptide or variants or fragments thereof interfere with the naturally occurring interaction between a first protein and a second protein within the cells of the organism. Thus, the SID® polypeptide binds specifically to either the first polypeptide or the second polypeptide.

Therefore, the SID® polypeptides of the present invention or variants or fragments thereof interfere with protein-protein interactions between mammalian or human adipocyte proteins.

Thus, the present invention relates to a pharmaceutical composition comprising a pharmaceutically acceptable amount of a SID® polypeptide or variant or fragment thereof, provided that the variant has the above-mentioned two characteristics; i.e., that it is endowed with highly specific binding properties to a bait polypeptide of interest and is devoid of biological activity of the naturally occurring protein.

In yet another embodiment, the present invention relates to a pharmaceutical composition comprising a pharmaceutically effective amount of a polynucleotide encoding a SID® polypeptide or a variant thereof wherein the polynucleotide is

placed under the control of an appropriate regulatory sequence. Appropriate regulatory sequences that are used are polynucleotide sequences derived from promoter elements and the like.

Polynucleotides that can be used in the pharmaceutical composition of the present invention include the nucleotide sequences of SEQ ID Nos.34 to 771.

Besides the SID® polypeptides and polynucleotides, the pharmaceutical composition of the present invention can also include a recombinant expression vector comprising the polynucleotide encoding the SID® polypeptide, fragment or variant thereof.

The above described pharmaceutical compositions can be administered by any route such as orally, systemically, intravenously, intramuscularly, intradermally, mucosally, encapsulated, using a patch and the like. Any pharmaceutically acceptable carrier or adjuvant can be used in this pharmaceutical composition.

The SID® polypeptides as active ingredients will be preferably in a soluble form combined with a pharmaceutically acceptable carrier. The techniques for formulating and administering these compounds can be found in "*Remington's Pharmaceutical Sciences*" *supra*.

The amount of pharmaceutically acceptable SID® polypeptides can be determined as described above for the modulating compounds using cell culture and animal models.

Such compounds can be used in a pharmaceutical composition to treat or prevent obesity or any metabolic diseases.

Thus, the present invention also relates to a method of preventing or treating obesity or any metabolic diseases in a mammal said method comprising the steps of administering to a mammal in need of such treatment a pharmaceutically effective amount of:

(1) a SID® polypeptide of SEQ ID Nos. 772 to 1509 or a variant or a fragment thereof which binds to a targeted mammalian or human adipocyte protein; or

(2) SID® polynucleotide encoding a SID® polypeptide of SEQ ID Nos. 772 to 1509 or a variant or a fragment thereof wherein said polynucleotide is placed under the control of a regulatory sequence which is functional in said mammal or human; or

(3) a recombinant expression vector comprising a polynucleotide encoding a SID® polypeptide which binds to a mammalian, human adipocyte protein.

In another embodiment the present invention nucleic acids comprising a sequence of SEQ ID Nos. 34 to 771 which encodes the protein of sequence SEQ ID Nos. 772 to 1509 and/or functional derivatives thereof are administered to modulate complex (from Table 2) function by way of gene therapy. Any of the methodologies relating to gene therapy available within the art may be used in the practice of the present invention such as those described by Goldspiel et al *Clin. Pharm.* **12** pgs. 488-505 (1993).

Delivery of the therapeutic nucleic acid into a patient may be direct *in vivo* gene therapy (i.e., the patient is directly exposed to the nucleic acid or nucleic acid-containing vector) or indirect *ex vivo* gene therapy (i.e., cells are first transformed with the nucleic acid in vitro and then transplanted into the patient).

For example for *in vivo* gene therapy, an expression vector containing the nucleic acid is administered in such a manner that it becomes intracellular; i.e., by infection using a defective or attenuated retroviral or other viral vectors as described, for example in U.S. Patent 4,980,286 or by Robbins et al, Pharmacol. *Ther.* , **80** No. 1 pgs. 35-47 (1998).

The various retroviral vectors that are known in the art are such as those described in Miller *et al.* (*Meth. Enzymol.* **217** pgs. 581-599 (1993)) which have been modified to delete those retroviral sequences which are not required for packaging of the viral genome and subsequent integration into host cell DNA. Also adenoviral vectors can be used which are advantageous due to their ability to infect non-dividing cells and such high-capacity adenoviral vectors are described in Kochanek (*Human Gene Therapy*, **10**, pgs. 2451-2459 (1999)). Chimeric viral vectors that can be used are those described by Reynolds *et al.* (*Molecular Medecine Today*, pgs. 25 –31 (1999)). Hybrid vectors can also be used and are described by Jacoby *et al.* (*Gene Therapy*, **4**, pgs. 1282-1283 (1997)).

Direct injection of naked DNA or through the use of microparticle bombardment (e.g., Gene Gun®; Biolistic, Dupont) or by coating it with lipids can also be used in gene therapy. Cell-surface receptors/transfecting agents or through encapsulation in liposomes, microparticles or microcapsules or by administering the nucleic acid in linkage to a peptide which is known to enter the nucleus or by administering it in linkage to a ligand predisposed to receptor-mediated endocytosis (See Wu & Wu, J.

Biol. Chem., 262 pgs. 4429-4432 (1987)) can be used to target cell types which specifically express the receptors of interest.

In another embodiment a nucleic acid ligand compound may be produced in which the ligand comprises a fusogenic viral peptide designed so as to disrupt endosomes, thus allowing the nucleic acid to avoid subsequent lysosomal degradation. The nucleic acid may be targeted *in vivo* for cell specific endocytosis and expression by targeting a specific receptor such as that described in WO92/06180, WO93/14188 and WO 93/20221. Alternatively the nucleic acid may be introduced intracellularly and incorporated within the host cell genome for expression by homologous recombination (See Zijlstra et al, *Nature*, **342**, pgs. 435-428 (1989)).

In *ex vivo* gene therapy, a gene is transferred into cells *in vitro* using tissue culture and the cells are delivered to the patient by various methods such as injecting subcutaneously, application of the cells into a skin graft and the intravenous injection of recombinant blood cells such as hematopoietic stem or progenitor cells.

Cells into which a nucleic acid can be introduced for the purposes of gene therapy include, for example, epithelial cells, endothelial cells, keratinocytes, fibroblasts, muscle cells, hepatocytes and blood cells. The blood cells that can be used include, for example, T-lymphocytes, B-lymphocytes, monocytes, macrophages, neutrophils, eosinophils, megakaryotcytes, granulocytes, hematopoietic cells or progenitor cells and the like.

In yet another embodiment the present invention relates to protein chips or protein microarrays. It is well known in the art that microarrays can contain more than 10,000 spots of a protein that can be robotically deposited on a surface of a glass slide or nylon filter. The proteins attach covalently to the slide surface, yet retain their ability to interact with other proteins or small molecules in solution. In some instances the protein samples can be made to adhere to glass slides by coating the slides with an aldehyde-containing reagent that attaches to primary amines. A process for creating microarrays is described, for example by MacBeath and Schreiber (*Science*, Volume 289, Number 5485, pgs, 1760-1763 (2000)) or (Service, *Science*, Vol, 289, Number 5485 pg. 1673 (2000)). An apparatus for controlling, dispensing and measuring small quantities of fluid is described, for example, in U.S. Patent No. 6,112,605.

The present invention also provides a record of protein-protein interactions, PIM®'s and any data encompassed in the following Tables. It will be appreciated that this record can be provided in paper or electronic or digital form.

In order to fully illustrate the present invention and advantages thereof, the following specific examples are given, it being understood that the same are intended only as illustrative and in nowise limitative.

EXAMPLES

EXAMPLE 1: Preparation of a collection of random-primed cDNA fragments

1.A. Collection preparation and transformation in Escherichia coli

1.A.1. Random-primed cDNA fragment preparation

For mRNA sample from differentiated PAZ6 adipocytes, random-primed cDNA was prepared from 5 µg of polyA+ mRNA using a TimeSaver cDNA Synthesis Kit (Amersham Pharmacia Biotech) and with 5 µg of random N9-mers according to the manufacturer's instructions. Following phenolic extraction, the cDNA was precipitated and resuspended in water. The resuspended cDNA was phosphorylated by incubating in the presence of T4 DNA Kinase (Biolabs) and ATP for 30 minutes at 37°C. The resulting phosphorylated cDNA was then purified over a separation column (Chromaspin TE 400, Clontech), according to the manufacturer's protocol.

1.A.2. Ligation of linkers to blunt-ended cDNA

Oligonucleotides HGX931 (5' end phosphorylated) 1 µg/µl and HGX932 1µg/µl were used.

Sequence of the oligo HGX931: 5'-GGGCCACGAA-3' (SEQ ID NO. 1510)

Sequence of the oligo HGX932: 5'-TTCGTGGCCCCTG-3 '(SEQ ID NO. 1511)

Linkers were preincubated (5 minutes at 95°C, 10 minutes at 68°C, 15 minutes at 42°C) then cooled down at room temperature and ligated with cDNA fragments at 16°C overnight.

Linkers were removed on a separation column (Chromaspin TE 400, Clontech), according to the manufacturer's protocol.

1.A.3. Vector preparation

Plasmid pP6 (see Figure 10) was prepared by replacing the *SpeI/XhoI* fragment of pGAD3S2X with the double-stranded oligonucleotide:

5'-

CTAGCCATGGCCGCAGGGGCCGCGGCCGCACTAGTGGGGATCCTTAATTAAAG

GGCCACTGGGGCCCCCGGTACCGGCGTCCCCGGCGCCGGCGTGATCACCCCT AGGAATTAATTTCCCGGTGACCCCGGGGGAGCT-3' (SEQ ID NO. 1512)

The pP6 vector was successively digested with *Sfi*1 and *Bam*HI restriction enzymes (Biolabs) for 1 hour at 37°C, extracted, precipitated and resuspended in water. Digested plasmid vector backbones were purified on a separation column (Chromaspin TE 400, Clontech), according to the manufacturer's protocol.

1.A.4. Ligation between vector and insert of cDNA

The prepared vector was ligated overnight at 15°C with the blunt-ended cDNA described in section 2 using T4 DNA ligase (Biolabs). The DNA was then precipitated and resuspended in water.

1.A.5. Library transformation in *Escherichia coli*

The DNA from section 1.A.4 was transformed into Electromax DH10B electrocompetent cells (Gibco BRL) with a Cell Porator apparatus (Gibco BRL). 1 ml SOC medium was added and the transformed cells were incubated at 37°C for 1 hour. 9 mls of SOC medium per tube was added and the cells were plated on LB+ampicillin medium. The colonies were scraped with liquid LB medium, aliquoted and frozen at -80°C.

The obtained collection of recombinant cell clones was named HGXBPZDRP1.

1.B. Collection transformation in Saccharomyces cerevisiae

The *Saccharomyces cerevisiae* strain (Y187 (MATα Gal4Δ Gal80Δ ade2-101, his3, leu2-3, -112, trp1-901, ura3-52 URA3::UASGAL1-LacZ Met)) was transformed with the cDNA library.

The plasmid DNA contained in *E. coli* were extracted (Qiagen) from aliquoted *E. coli* frozen cells (1.A.5.). *Saccharomyces cerevisiae* yeast Y187 in YPGlu were grown.

Yeast transformation was performed according to standard protocol (Giest *et al.* Yeast, 11, 355-360, 1995) using yeast carrier DNA (Clontech). This experiment lead to 10^4 to 5×10^4 cells/μg DNA. 2×10^4 cells were spread on DO-Leu medium per plate. The cells were aliquoted into vials containing 1 ml of cells and frozen at -80°C. The obtained collection of recombinant cell clones was named HGXYPZDRP1.

1.C. Construction of bait plasmids

For fusions of the bait protein to the DNA-binding domain of the GAL4 protein of *S. cerevisiae*, bait fragments were cloned into plasmid pB6. For fusions of the bait

protein to the DNA-binding domain of the LexA protein of *E. coli*, bait fragments were cloned into plasmid pB20.

Plasmid pB6 (see Figure 3) was prepared by replacing the *Nco*1/*Sal*1 polylinker fragment of pB1 (see Figure 1) with the double-stranded DNA fragment:

5' CATGGCCGGACGGGCCGCGGCCGCACTAGTGGGATCCTTA ATTAAGGGCCACTGGGGCCCC 3' (SEQ ID No. 1513)

5' TCGAGGGGCCCCAGTGGCCCTTAATTAAGGATCCCCACTAGTG CGGCCGCGGCCCGTCCGGC 3' (SEQ ID No. 1514)

Plasmid pB5 (see Figure 2) was prepared by replacing the NcoI/SalI polylinker fragment of pB1 with the double-stranded DNA fragment :

5' CATGGCCGCAGGGGCCGCGGCCGCACTAGTGGGATCCTTA ATTAAGGGCCACTGGGGCCCC 3' (SEQ IS No. 1515)
5' TCGAGGGGCCCCAGTGGCCCTTAATTAAGGATCCCCACTAGTG CGGCCGCGGCCCCTGCGGC 3' (SEQ ID No. 1516)

The amplification of the bait ORF was obtained by PCR using the Pfu proof-reading *Taq* polymerase (Stratagene), 10 pmol of each specific amplification primer and 200 ng of plasmid DNA as template.

The PCR program was set up as follows :

94° 45"

94° 45" \
48° 45" } x 30 cycles
72° 6' /

72° 10'

15° ∞

The amplification was checked by agarose gel electrophoresis.

The PCR fragments were purified with Qiaquick column (Qiagen) according to the manufacturer's protocol.

Purified PCR fragments were digested with adequate restriction enzymes.

The PCR fragments were purified with Qiaquick column (Qiagen) according to the manufacturer's protocol.

The digested PCR fragments were ligated into an adequately digested and dephosphorylated bait vector (pB6 or pB5) according to standard protocol (Sambrook *et al.*) and were transformed into competent bacterial cells. The cells were grown, the DNA extracted and the plasmid was sequenced.

<u>Example 2 :</u> Screening the collection with the two-hybrid in yeast system

2.A. The mating protocol

The mating two-hybrid in yeast system (as described by Legrain *et al.*, *Nature Genetics*, vol. 16, 277-282 (1997), *Toward a functional analysis of the yeast genome through exhaustive two-hybrid screens*) was used for its advantages but one could also screen the cDNA collection in classical two-hybrid system as described in Fields *et al.* or in a yeast reverse two-hybrid system.

The mating procedure allows a direct selection on selective plates because the two fusion proteins are already produced in the parental cells. No replica plating is required.

This protocol was written for the use of the library transformed into the Y187 strain.

For bait proteins fused to the DNA-binding domain of GAL4, bait-encoding plasmids were first transformed into *S. cerevisiae* (CG1945 strain (MATa Gal4-542 Gal180-538 ade2-101 his3Δ200, leu2-3,112, trp1-901, ura3-52, lys2-801, URA3::GAL4 17mers (X3)-CyC1TATA-LacZ, LYS2::GAL1UAS-GAL1TATA-HIS3 CYH^R)) according to step 1.B. and spread on DO-Trp medium.

For bait proteins fused to the DNA-binding domain of LexA, bait-encoding plasmids were first transformed into *S. cerevisiae* (L40Δgal4 strain (MATa ade2, trp1-901, leu2 3,112, lys2-801, his3Δ200, LYS2::$(lexAop)_4$-HIS3, ura3-52::URA3 $(lexAop)_8$-LacZ, GAL4::Kan^R)) according to step 1.B. and spread on DO-Trp medium.

Day 1, morning : preculture

The cells carrying the bait plasmid obtained at step 1.C. were precultured in 20 ml DO-Trp medium and grown at 30°C with vigorous agitation.

Day 1, late afternoon : culture

The OD_{600nm} of the DO-Trp pre-culture of cells carrying the bait plasmid was measured. The OD_{600nm} must lie between 0.1 and 0.5 in order to correspond to a linear measurement.

50 ml DO-Trp at OD600nm 0.006/ml was inoculated and grown overnight at 30°C with vigorous agitation.

Day 2 : mating

medium and plates

1 YPGlu 15cm plate

50 ml tube with 13 ml DO-Leu-Trp-His

100 ml flask with 5 ml of YPGlu

8 DO-Leu-Trp-His plates

2 DO-Leu plates

2 DO-Trp plates

2 DO-Leu-Trp plates

The OD600nm of the DO-Trp culture was measured. It should be around 1. For the mating, twice as many bait cells as library cells were used. To get a good mating efficiency, one must collect the cells at 10^8 cells per cm^2.

The amount of bait culture (in ml) that makes up 50 OD600nm units for the mating with the prey library was estimated.

A vial containing the HGXYPZDRP1 library was thawed slowly on ice. 1.0ml of the vial was added to 5 ml YPGlu. Those cells were recovered at 30°C, under gentle agitation for 10 minutes.

<u>Mating</u>

The 50 OD600nm units of bait culture was placed into a 50 ml falcon tube. The HGXYCDNA1 library culture was added to the bait culture, then centrifuged, the supernatant discarded and resuspended in 1.6ml YPGlu medium.

The cells were distributed onto two 15cm YPGlu plates with glass beads. The cells were spread by shaking the plates. The plate cells-up at 30°C for 4h30min were incubated.

<u>Collection of mated cells</u>

The plates were washed and rinsed with 6ml and 7ml respectively of DO-Leu-Trp-His. Two parallel serial ten-fold dilutions were performed in 500µl DO-Leu-Trp-His up to 1/10,000. 50µl of each 1/10000 dilution was spread onto DO-Leu and DO-trp plates and 50µl of each 1/1000 dilution onto DO-Leu-Trp plates. 22.4ml of collected cells were spread in 400µl aliquots on DO-Leu-Trp-His+Tet plates.

Day 4

Clones that were able to grow on DO-Leu-Trp-His+Tetracyclin were then selected. This medium allows one to isolate diploid clones presenting an interaction. The His+ colonies were counted on control plates.

The number of His+ cell clones will define which protocol is to be processed :
Upon 60 x 10^6 Trp+Leu+ colonies :

if the number His+ cell clones <285 : then use the process luminometry protocol on all colonies

if the number of His+ cell clones >285 and <5000: then process via overlay and then luminometry protocols on blue colonies (2.B and 2.C).

if number of His+ cell clones >5000 : repeat screen using DO-Leu-Trp-His+Tetracyclin plates containing 3-aminotriazol.

2.B. The X-Gal overlay assay

The X-Gal overlay assay was performed directly on the selective medium plates after scoring the number of His^+ colonies.

Materials

A waterbath was set up. The water temperature should be 50°C.

0.5 M Na_2HPO_4 pH 7.5.

1.2% Bacto-agar.

2% X-Gal in DMF.

Overlay mixture : 0.25 M Na_2HPO_4 pH7.5, 0.5% agar, 0.1% SDS, 7% DMF (LABOSI), 0.04% X-Gal (ICN). For each plate, 10 ml overlay mixture are needed.

DO-Leu-Trp-His plates.

Sterile toothpicks.

Experiment

The temperature of the overlay mix should be between 45°C and 50°C. The overlay-mix was poured over the plates in portions of 10 ml. When the top layer was settled, they were collected. The plates were incubated overlay-up at 30°C and the time was noted. Blue colonies were checked for regularly. If no blue colony appeared, overnight incubation was performed. Using a pen the number of positives was marked. The positives colonies were streaked on fresh DO-Leu-Trp-His plates with a sterile toothpick.

2.C. The luminometry assay

His+ colonies were grown overnight at 30°C in microtiter plates containing DO-Leu-Trp-His+Tetracyclin medium with shaking. The day after, the overnight culture was diluted 15 times into a new microtiter plate containing the same medium and was incubated for 5 hours at 30°C with shaking. The samples were diluted 5 times and read OD_{600nm}. The samples were diluted again to obtain between 10,000 and 75,000 yeast cells/well in 100 µl final volume.

Per well, 76 µl of One Step Yeast Lysis Buffer (Tropix) was added, 20 µl SapphireII Enhancer (Tropix), 4 µl Galacton Star (Tropix) and incubated 40 minutes at 30°C. The β-Gal read-out (L) was measured using a Luminometer (Trilux, Wallach). The value of (OD_{600nm} x L) was calculated and interacting preys having the highest values were selected.

At this step of the protocol, diploid cell clones presenting interaction were isolated. The next step was now to identify polypeptides involved in the selected interactions.

Example 3 : Identification of positive clones

3.A. PCR on yeast colonies

Introduction

PCR amplification of fragments of plasmid DNA directly on yeast colonies is a quick and efficient procedure to identify sequences cloned into this plasmid. It is directly derived from a published protocol (Wang H. et al., *Analytical Biochemistry,* **237**, 145-146, (1996)). However, it is not a standardized protocol and it varies from strain to strain and it is dependent of experimental conditions (number of cells, *Taq* polymerase source, etc). This protocol should be optimized to specific local conditions.

Materials

For 1 well, PCR mix composition was :

32.5 µl water,

5 µl 10X PCR buffer (Pharmacia),

1 µl dNTP 10 mM,

0.5 µl *Taq* polymerase (5u/µl) (Pharmacia),

0.5 µl oligonucleotide ABS1 10 pmole/µl: 5'-GCGTTTGGAATCACTACAGG-3',(SEQ ID No.1517)

0.5 µl oligonucleotide ABS2 10 pmole/µl: 5'-CACGATGCACGTTGAAGTG-3'.(SEQ ID No. 1518)

1 N NaOH.

Experiment

The positive colonies were grown overnight at 30°C on a 96 well cell culture cluster (Costar), containing 150 µl DO-Leu-Trp-His+Tetracyclin with shaking. The culture was resuspended and 100 µl was transferred immediately on a Thermowell

96 (Costar) and centrifuged for 5 minutes at 4,000 rpm at room temperature. The supernatant was removed. 5 µl NaOH was added to each well and shaken for 1 minute.

The Thermowell was placed in the thermocycler (GeneAmp 9700, Perkin Elmer) for 5 minutes at 99.9°C and then 10 minutes at 4°C. In each well, the PCR mix was added and shaken well.

The PCR program was set up as followed :

94°C	3 minutes	
94°C	30 seconds	x 35 cycles
53°C	1 minute 30 seconds	x 35 cycles
72°C	3 minutes	x 35 cycles
72°C	5 minutes	
15°C	∞	

The quality, the quantity and the length of the PCR fragment was checked on an agarose gel. The length of the cloned fragment was the estimated length of the PCR fragment minus 300 base pairs that corresponded to the amplified flanking plasmid sequences.

3.B. Plasmids rescue from yeast by electroporation

Introduction

The previous protocol of PCR on yeast cell may not be successful, in such a case, plasmids from yeast by electroporation can be rescued. This experiment allows the recovery of prey plasmids from yeast cells by transformation of *E. coli* with a yeast cellular extract. The prey plasmid can then be amplified and the cloned fragment can be sequenced.

Materials

Plasmid rescue

Glass beads 425-600 µm (Sigma)

Phenol/chloroform (1/1) premixed with isoamyl alcohol (Amresco)

Extraction buffer : 2% Triton X100, 1% SDS, 100 mM NaCl, 10 mM TrisHCl pH 8.0, 1 mM EDTA pH 8.0.

Mix ethanol/NH_4Ac : 6 volumes ethanol with 7.5 M NH_4 Acetate, 70% Ethanol and yeast cells in patches on plates.

Electroporation

SOC medium

M9 medium

Selective plates : M9-Leu+Ampicillin

2 mm electroporation cuvettes (Eurogentech)

Experiment

Plasmid rescue

The cell patch on DO-Leu-Trp-His was prepared with the cell culture of section 2.C. The cell of each patch was scraped into an Eppendorf tube, 300 µl of glass beads was added in each tube, then, 200 µl extraction buffer and 200 µl phenol:chloroform:isoamyl alcohol (25:24:1) was added.

The tubes were centrifuged for 10 minutes at 15,000 rpm.

180 µl supernatant was transferred to a sterile Eppendorf tube and 500 µl each of ethanol/NH_4Ac was added and the tubes were vortexed. The tubes were centrifuged for 15 minutes at 15,000 rpm at 4°C. The pellet was washed with 200 µl 70% ethanol and the ethanol was removed and the pellet was dried. The pellet was resuspended in 10 µl water. Extracts were stored at -20°C.

Electroporation

Materials : Electrocompetent MC1066 cells prepared according to standard protocols (Sambrook et al. *supra*).

1 µl of yeast plasmid DNA-extract was added to a pre-chilled Eppendorf tube, and kept on ice.

1 µl plasmid yeast DNA-extract sample was mixed and 20 µl electrocompetent cells was added and transferred in a cold electroporation cuvette.

The Biorad electroporator was set on 200 ohms resistance, 25 µF capacity; 2.5 kV. The cuvette was placed in the cuvette holder and electroporation was performed.

1 ml of SOC was added into the cuvette and the cell-mix was transferred into a sterile Eppendorf tube. The cells were recovered for 30 minutes at 37°C, then spun down for 1 minute at 4,000 x g and the supernatant was poured off. About 100 µl medium was kept and used to resuspend the cells and spread them on selective plates (e.g., M9-Leu plates). The plates were then incubated for 36 hours at 37°C.

One colony was grown and the plasmids were extracted. The presence and the size of the insert were checked for through enzymatic digestion and agarose gel electrophoresis. The insert was then sequenced.

Example 4 : Protein-protein interaction

For each bait, the previous protocol lead to the identification of prey polynucleotide sequences. Using a suitable software program (e.g., Blastwun, available on the Internet site of the University of Washington : http://bioweb.pasteur.fr/seqanal/interfaces/blastwu.html) one can determine the identity of the mRNA transcript that is encoded by the prey fragment and whether the fusion protein encoded is in the same open reading frame of translation as the predicted protein or not.

Alternatively, prey nucleotide sequences can be compared with one another and those which share identity over a significant region (60nt) can be grouped together to form a contiguous sequence (Contig) whose identity can be ascertained in the same manner as for individual prey fragments described above.

Example 5: Identification of SID®

By comparing and selecting the intersection of all isolated fragments that are included in the same polypeptide, one can define the Selected Interacting Domain (SID®) is determined as illustrated in Figure 15. The SID® is illustrated in Table 3.

Example 6: Making of polyclonal and monoclonal antibodies

The protein-protein complex of columns 1 and 4 of Table 2 is injected into mice and polyclonal and monoclonal antibodies are made following the procedure set forth in Sambrook et al *supra*.

More specifically, mice are immunized with an immunogen comprising the above mentionned complexes conjugated to keyhole limpet hemocyanin using glutaraldehyde or EDC as is well known in the art. The complexes can also be stabilized by crosslinking as described in WO 00/37483. The immunogen is then mixed with an adjuvant. Each mouse receives four injections of 10 µg to 100 µg of immunogen, and after the fourth injection, blood samples are taken from the mice to determine if the serum contains antibodies to the immunogen. Serum titer is

determined by ELISA or RIA. Mice with sera indicating the presence of antibody to the immunogen are selected for hybridoma production.

Spleens are removed from immune mice and single-cell suspension is prepared (Harlow et al 1988). Cell fusions are performed essentially as described by Kohler et al.. Briefly, P365.3 myeloma cells (ATTC Rockville, Md) or NS-1 myeloma cells are fused with spleen cells using polyethylene glycol as described by Harlow et al (1989). Cells are plated at a density of 2 x 10^5 cells/well in 96-well tissue culture plates. Individual wells are examined for growth and the supernatants of wells with growth are tested for the presence of complex-specific antibodies by ELISA or RIA using the protein-protein complex of columns 1 and 4 of Table 2 as a target protein. Cells in positive wells are expanded and subcloned to establish and confirm monoclonality.

Clones with the desired specificities are expanded and grown as ascites in mice or in a hollow fiber system to produce sufficient quantities of antibodies for characterization and assay development. Antibodies are tested for binding to bait polypeptide of column 1 of Table 2 alone or to prey polypeptide of column 4 of Table 2 alone, to determine which are specific for the protein-protein complex of columns 1 and 4 of Table 2 as opposed to those that bind to the individual proteins.

Monoclonal antibodies against each of the complexes set forth in columns 1 and 4 of Table 2 are prepared in a similar manner by mixing specified proteins together, immunizing an animal, fusing spleen cells with myeloma cells and isolating clones which produce antibodies specific for the protein complex, but not for individual proteins.

Example 6: Modulating compounds identification

Each specific protein-protein complex of columns 1 and 4 of Table 2 is used to screen for modulating compounds.

One appropriate construction for this modulating compound screening is:

bait polynucleotide inserted in pB6 or pB5;

prey polynucleotide inserted in pP6;

transformation of these two vectors in a permeable yeast cell;

growth of the transformed yeast cell on a medium containing compound to be tested,

and observation of the growth of the yeast cells.

The following results obtained from these Examples, as well as the teachings in the specification are set forth in the Tables below.

All non-patented websites cited in the present specification are incorporated herein by reference.

While the invention has been described in terms of the various preferred embodiments, the skilled artisan will appreciate that various modifications, substitutions, omissions and changes may be made without departing from the scope thereof. Accordingly, it is intended that the present invention be limited by the scope of the following claims, including equivalents thereof.

Table 1 : bait name and sequence

1: Bait name	2: Nucleic acid ID No.	3: Nucleic acid sequence	4: Nucleic Positions	5: Amino acid ID No.	6: Amino acid Sequence	7 : Bait construction
Human ADRB3_v4	1	GTTTTCGTGGTGGCTACGCGCCAGCTGCGCTTGCTGCGCGGGGAGCTGGGCCGCTT TCCGCCCGAGGAGTCTCCGCCGGCGCCGTCGCGCTCTCTGGCCCCGGCCCCGGTGG GGACGTGCGCTCCGCCCGAAGGGGTGCCCGCCTGCGGCCGGCGGCCCGCGCGCCTC CTGCCTCTCCGGGAACACCGGGCCCTGTGCACCTTGGGTCTCATCATGGGCACCTT CACTCTCTGCTGGTTGCCCTTCTTTCTGGCCAACGTGCTGCGCGCCCTGGGGGGCC CCTCTCTAGTCCCGGGCCCGGCTTTCCTTGCCCTGAACTGGCTAGGTTATGCCAAT TCTGCCTTCAACCCGCTCATCTACTGCCGCAGCCCGGACTTTCGCAGCGCCTTCCG CCGTCTTCTGTGCCGCTGCGGCCGTCGCCTGCCTCCGGAGCCCTGCGCCGCCGCCC GCCCGGCCCTCTTCCCCTCGGGCGTTCCTGCGGCCCGGAGCAGCCCAGCGCAGCCC AGGCTTTGCCAACGGCTCGACGGGGCTTCTTGGGGAGTTTCT	[679 1224]	22	VFVVATRQLRLLRGELGRFP PEESPPAPSRSLAPAPVGTC APPEGVPACGRRPARLLPLR EHRALCTLGLIMGTFTLCWL PFFLANVLRALGGPSLVPGP AFLALNWLGYANSAFNPLIY CRSPDFRSAFRRLLCRCGRR LPPEPCAAARPALFPSGVPA ARSSPAQPRLCQRLDGASWG VS	pB6
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	CGCAGCCCGGACTTTCGCAGCGCCTTCCGCCGTCTTCTGTGCCGCTGCGGCCGTCG CCTGCCTCCGGAGCCCTGCGCCGCCGCCCGCCCGGCCCTCTTCCCCTCGGGCGTTC CTGCGGCCCGGAGCAGCCCAGCGCAGCCCAGGCTTTGCCAACGGCTCGACGGGGCT TCTTGGGGAGTTTCTTAG	[1042 1227]	23	RSPDFRSAFRRLLCRCGRRL PPEPCAAARPALFPSGVPAA RSSPAQPRLCQRLDGASWGV S*	pB6
Human ADRB3_v1	3	GTTTTCGTGGTGGCTACGCGCCAGCTGCGCTTGCTGCGCGGGGAGCTGGGCCGCTT TCCGCCCGAGGAGTCTCCGCCGGCGCCGTCGCGCTCTCTGGCCCCGGCCCCGGTGG GGACGTGCGCTCCGCCCGAAGGGGTGCCCGCCTGCGGCCGGCGGCCCGCGCGCCTC CTGCCTCTCCGGGAACACCGGGCCCTGTGC	[679 876]	24	VFVVATRQLRLLRGELGRFP PEESPPAPSRSLAPAPVGTC APPEGVPACGRRPARLLPLR EHRALC	pB6
Human ADRB3_v3	4	GTTTTCGTGGTGGCTACGCGCCAGCTGCGCTTGCTGCGCGGGGAGCTGGGCCGCTT TCCGCCCGAGGAGTCTCCGCCGGCGCCGTCGCGCTCTCTGGCCCCGGCCCCGGTGG GGACGTGCGCTCCGCCCGAAGGGGTGCCCGCCTGCGGCCGGCGGCCCGCGCGCCTC CTGCCTCTCCGGGAACACCGGGCCCTGTGCACCTTGGGTCTCATCATGGGCACCTT CACTCTCTGCTGGTTGCCCTTCTTTCTGGCCAACGTGCTGCGCGCCCTGGGGGGCC CCTCTCTAGTCCCGGGCCCGGCTTTCCTTGCCCTGAACTGGCTAGGTTATGCCAAT TCTGCCTTCAACCCGCTCATCTACTGCCGCAGCCCGGACTTTCGCAGCGCCTTCCG CCGTCTTCTGTGCCGCTGCGGCCGTCGCCTGCCTCCGGAGCCCTGCGCCGCCGCCC	[679 1224]	25	VFVVATRQLRLLRGELGRFP PEESPPAPSRSLAPAPVGTC APPEGVPACGRRPARLLPLR EHRALCTLGLIMGTFTLCWL PFFLANVLRALGGPSLVPGP AFLALNWLGYANSAFNPLIY CRSPDFRSAFRRLLCRCGRR LPPEPCAAARPALFPSGVPA	pB6

		GCCCGGCCCTCTTCCCCTCGGGCGTTCCTGCGGCCCGGAGCAGCCCAGCGCAGCCC AGGCTTTGCCAACGGCTCGACGGGGCTTCTTGGGGAGTTTCT			ARSSPAQPRLCQRLDGASWG VS	
Human OBRGRP_v2	5	ATTGCCAAAAGAGTCACCTATGACTCAGATGCAACCAGTAGTGCCTGTCGGGAACT GGCA	[151 210]	26	IAKRVTYDSDATSSACRELA	pB6
Human OBRGRP_v4	6	CATTGCCAAAAGAGTCACCTATGACTCAGATGCAACCAGTAGTGCCTGTCGGGAAC TGGCATATTTCTTCACTACTGGAATTGTTGTTTCTGCCTTTGGATTTCCTGTTATT CTTGCTCGTGTGGCTGTGATCAAATGGGGAGCCTGCGGCCTTGTGTTGGCAGGCAA TGCAGTCATTTTCCTTACAATTCAAGGGTTTTTCCTTATATTTGGAAGAGGAGATG ATTTTAGCTGGGAGCAGTGGTA	[150 395]	27	HCQKSHL*LRCNQ*CLSGTG IFLHYWNCCFCLWISCYSCS CGCDQMGSLRPCVGRQCSHF PYNSRVFPYIWKRR*F*LGA VV	pB6
Human Melatonin 1a receptor_v4	7	GGCATCGCCATCAACCGCTACTGCTACATCTGCCACAGTCTCAAGTACGACAAACT GTACAGCAGCAAGAACTCCCTCTGCTACGTGCTCCTCATATGGCTCCTGACGCTGG CGGCCGTCCTGCCCAACCTCCGTGCAGGGACTCTCCAGTACGACCCGAGGATCTAC TCGTGCACCTTCGCCCAGTCCGTCAGCTCCGCCTACACCATCGCCGTGGTGGTTTT CCACTTCCTCGTCCCCATGATCATAGTCATCTTCTGTTACCTGAGAATATGGATCC TGGTTCTCCAGGTCAGACAGAGGGTGAAACCTGACCGCAAACCCAAACTGAAACCA CAGGACTTCAGGAATTTTGTCACCATGTTTGTGGTTTTTGTCCTCTTTGCCATTTG CTGGGCTCCTCTGAACTTCATTGGCCTGGCCGTGGCCTCTGACCCCGCCAGCATGG TGCCTAGGATCCCAGAGTGGCTGTTTGTGGCCAGTTACTACATGGCGTATTTCAAC AGCTGCCTCAATGCCATTATATACGGGCTACTGAACCAAAATTTCAGGAAGGAATA CAGGAGAATTATAGTCTCGCTCTGTACAGCCAGGGTGTTCTTTGTGGACAGCTCTA ACGACGTGGCCGATAGGGTTAAATGGAAACCGTCTCCACTGATGACCAACAATAAT GTAGTAAAGGTGGACTCCGTT	[358 1050]	28	GIAINRYCYICHSLKYDKLY SSKNSLCYVLLIWLLTLAAV LPNLRAGTLQYDPRIYSCTF AQSVSSAYTIAVVVFHFLVP MIIVIFCYLRIWILVLQVRQ RVKPDRKPKLKPQDFRNFVT MFVVFVLFAICWAPLNFIGL AVASDPASMVPRIPEWLFVA SYYMAYFNSCLNAIIYGLLN QNFRKEYRRIIVSLCTARVF FVDSSNDVADRVKWKPSPLM TNNNVVKVDSV	pB6
Human Melatonin 1a receptor_v5	8	GGCATCGCCATCAACCGCTACTGCTACATCTGCCACAGTCTCAAGTACGACAAACT GTACAGCAGCAAGAACTCCCTCTGCTACGTGCTCCTCATATGGCTCCTGACGCTGG CGGCCGTCCTGCCCAACCTCCGTGCAGGGACTCTCCAGTACGACCCGAGGATCTAC TCGTGCACCTTCGCCCAGTCCGTCAGCTCCGCCTACACCATCGCCGTGGTGGTTTT CCACTTCCTCGTCCCCATGATCATAGTCATCTTCTGTTACCTGAGAATATGGATCC TGGTTCTCCAGGTCAGACAGAGGGTGAAACCTGACCGCAAACCCAAACTGAAACCA CAGGACTTCAGGAATTTTGTCACCATGTTTGTGGTTTTTGTCCTCTTTGCCATTTG CTGGGCTCCTCTGAACTTCATTGGCCTGGCCGTGGCCTCTGACCCCGCCAGCATGG TGCCTAGGATCCCAGAGTGGCTGTTTGTGGCCAGTTACTACATGGCGTATTTCAAC AGCTGCCTCAATGCCATTATATACGGGCTACTGAACCAAAATTTCAGGAAGGAATA CAGGAGAATTATAGTCTCGCTCTGTACAGCCAGGGTGTTCTTTGTGGACAGCTCTA ACGACGTGGCCGATAGGGTTAAATGGAAACCGTCTCCACTGATGACCAACAATAAT GTAGTAAAGGTGGACTCCGTT	[358 1050]	29	GIAINRYCYICHSLKYDKLY SSKNSLCYVLLIWLLTLAAV LPNLRAGTLQYDPRIYSCTF AQSVSSAYTIAVVVFHFLVP MIIVIFCYLRIWILVLQVRQ RVKPDRKPKLKPQDFRNFVT MFVVFVLFAICWAPLNFIGL AVASDPASMVPRIPEWLFVA SYYMAYFNSCLNAIIYGLLN QNFRKEYRRIIVSLCTARVF FVDSSNDVADRVKWKPSPLM TNNNVVKVDSV	pB6
Human SOCS3_v1	9	ATGGTCACCCACAGCAAGTTTCCCGCCGCCGGGATGAGCCGCCCCCTGGACACCAG CCTGCGCCTCAAGACCTTCAGCTCCAAGAGCGAGTACCAGCTGGTGGTGAACGCAG TGCGCAAGCTGCAGGAGAGCGGCTTCTACTGGAGCGCAGTGACCGGCGGCGAGGCG	[1 678]	30	MVTHSKFPAAGMSRPLDTSL RLKTFSSKSEYQLVVNAVRK LQESGFYWSAVTGGEANLLL	pB6

		AACCTGCTGCTCAGCGCCGAGCCCGCCGGCACCTTTCTGATCCGCGACAGCTCGGA CCAGCGCCACTTCTTCACGCTCAGCGTCAAGACCCAGTCTGGGACCAAGAACCTGC GCATCCAGTGTGAGGGGGGCAGCTTCTCTCTGCAGAGCGATCCCCGGAGCACGCAG CCCGTGCCCCGCTTCGACTGCGTGCTCAAGCTGGTGCACCACTACATGCCGCCCCC TGGAGCCCCCTCCTTCCCCTCGCCACCTACTGAACCCTCCTCCGAGGTGCCCGAGC AGCCGTCTGCCCAGCCACTCCCTGGGAGTCCCCCCAGAAGAGCCTATTACATCTAC TCCGGGGGCGAGAAGATCCCCCTGGTGTTGAGCCGGCCCCTCTCCTCCAACGTGGC CACTCTTCAGCATCTCTGTCGGAAGACCGTCAACGGCCACCTGGACTCCTATGAGA AAGTCACCCAGCTGCCGGGGCCCATTCGGGAGTTCCTGGACCAGTACGATGCCCCG CTTTAA			SAEPAGTFLIRDSSDQRHFF TLSVKTQSGTKNLRIQCEGG SFSLQSDPRSTQPVPRFDCV LKLVHHYMPPPGAPSFPSPP TEPSSEVPEQPSAQPLPGSP PRRAYYIYSGGEKIPLVLSR PLSSNVATLQHLCRKTVNGH LDSYEKVTQLPGPIREFLDQ YDAPL*	
Human hGIT1_v1	10	GCCAAAGACCTCAGCAAGCAACTACACTCGAGCGTGCGGACAGGCAACCTGGAGAC ATGTCTGCGCCTGCTCTCCCTGGGTGCCCAGGCCAACTTCTTCCACCCAGAGAAGG GCACCACACCTCTGCACGTGGCTGCCAAGGCAGGACAGACACTGCAGGCCGAGCTG CTTGTAGTGTATGGGGCTGACCCTGGCTCCCCTGATGTTAATGGCCGCACACCCAT TGACTATGCCAGGCAGGCGGGGCACCATGAGCTGGCGGAAAGGCTGGTTGAGTGCC AATATGAGCTCACTGACCGGCTGGCCTTCTACCTCTGTGGACGCAAGCCGGATCAC AAGAATGGGCATTACATCATCCCACAGATGGCTGACAGCCTTGACTTATCCGAATT GGCCAAAGCTGCTAAGAAGAAGCTGCAGGCGCTCAGCAACCGGCTTTTTGAGGAAC TCGCCATGGACGTGTATGACGAGGTGGATCGAAGAGAAAATGATGCAGTGTGGCTG GCTACCCAAAACCACAGCACTCTGGTGACAGAGCGCAGTGCTGTGCCCTTCCTGCC TGTTAACCCGGAATACTCAGCCACGCGGAATCAGGGGCGACAAAAGCTGGCCCGCT TTAATGCCCGAGAGTTTGCCACCTTGATCATCGACATTCTCAGTGAGGCCAAGCGG AGACAGCAGGGCAAGAGCCTGAGCAGCCCCACAGACAACCTCGAGCTGTCTCTGCG GAGCCAGAGTGACCTCGACGACCAACACGAC	[388 1146]	31	AKDLSKQLHSSVRTGNLETC LRLLSLGAQANFFHPEKGTT PLHVAAKAGQTLQAELLVVY GADPGSPDVNGRTPIDYARQ AGHHELAERLVECQYELTDR LAFYLCGRKPDHKNGHYIIP QMADSLDLSELAKAAKKKLQ ALSNRLFEELAMDVYDEVDR RENDAVWLATQNHSTLVTER SAVPFLPVNPEYSATRNQGR QKLARFNAREFATLIIDILS EAKRRQQGKSLSSPTDNLEL SLRSQSDLDDQHD	pB5
Human hGIT1_v4	11	CTGCGGAGCCAGAGTGACCTCGACGACCAACACGACTACGACAGCGTGGCCTCTGA CGAGGACACAGACCAGGAGCCCCTGCGCAGCACCGGCGCCACTCGGAGCAACCGGG CCCGGAGCATGGACTCCTCGGACTTGTCTGACGGGGCTGTGACGCTGCAGGAGTAC CTGGAGCTGAAGAAGGCCCTGGCTACATCGGAGGCAAAGGTGCAGCAGCTCATGAA GGTCAACAGTAGCCTGAGCGACGAGCTCCGGAGGCTGCAGCGAGAGATCCACAAGC TGCAGGCGGAGAACCTGCAGCTCCGGCAGCCTCCAGGGCCGGTGCCCACACCTCCA CTCCCCAGTGAACGGGCGGAACACACACCCATGGCGCCAGGCGGGAGCACACACCG CAGGGATCGCCAGGCCTTTTCCATGTATGAACCTGGCTCTGCCCTGAAGCCCTTTG GGGGCCCCCCTGGGGACGAGCTCACTACGCGGCTGCAGCCTTTCCACAGCACTGAG CTAGAGGACGACGCCATCTATTCAGTGCACGTCCCTGCTGGCCTTTACCGGATCCG GAAAGGGGTGTCTGCCTCAGCTGTGCCCTTCACTCCCTCCTCCCCGCTGCTGTCCT GCTCCCAGGAGGGAAGCCGCCACACGAGCAAGCTTTCCCGCCACGGCAGTGGAGCC GACAGTGACTATGAGAACACGCAAAGTGGGGACCCACTGCTGGGGCTGGAAGGGAA GAGGTTTCTAGAGCTGGGCAAAGAGGAAGACTTCCACCCAGAGCTGGAAAGCCTGG ATGGAGACCTAGATCCTGGGCTTCCCAGCACAGAGGATGTCATCTTGAAGACAGAG	[1111 2283]	32	LRSQSDLDDQHDYDSVASDE DTDQEPLRSTGATRSNRARS MDSSDLSDGAVTLQEYLELK KALATSEAKVQQLMKVNSSL SDELRRLQREIHKLQAENLQ LRQPPGPVPTPPLPSERAEH TPMAPGGSTHRRDRQAFSMY EPGSALKPFGGPPGDELTTR LQPFHSTELEDDAIYSVHVP AGLYRIRKGVSASAVPFTPS SPLLSCSQEGSRHTSKLSRH GSGADSDYENTQSGDPLLGL EGKRFLELGKEEDFHPELES LDGDLDPGLPSTEDVILKTE QVTKNIQELLRAAQEFKHDS	pB6

		CAGGTCACCAAGAACATTCAGGAACTGTTGCGGGCAGCCCAGGAGTTCAAGCATGA CAGCTTCGTGCCCTGCTCAGAGAAGATCCATTTGGCTGTGACCGAGATGGCCTCCC TCTTCCCAAAGAGGCCAGCCCTGGAGCCAGTGCGGAGCTCACTGCGGCTGCTCAAC GCCAGCGCCTACCGGCTGCAGAGTGAGTGCCGGAAGACAGTGCCCCCAGAGCCCGG CGCCCCAGTGGACTTCCAGCTGCTGACTCAGCAGGTGATCCAGTGCGCCTATGACA TCGCCAAGGCTGCCAAGCAGCTGGTCACCATCACCACCCGAGAGAAGAAGCAG			FVPCSEKIHLAVTEMASLFP KRPALEPVRSSLRLLNASAY RLQSECRKTVPPEPGAPVDF QLLTQQVIQCAYDIAKAAKQ LVTITTREKKQ	
Human ADRB3 AA227-292	12	GTTTTCGTGGTGGCTACGCGCCAGCTGCGCTTGCTGCGCGGGGAGCTGGGCCGCTT TCCGCCCGAGGAGTCTCCGCCGGCGCCGTCGCGCTCTCTGGCCCCGGTCCCGGTGG GGACGTGCGCTCCGCCCGAAGGGGTGCCCGCCTGCGGCCGGCGGCCCGCGCGCCTC CTGCCTCTCCGGGAACACCGGGCCCTGTGCTGA				
Human ADRB3 AA227-292_AA348-409	13	GTTTTCGTGGTGGCTACGCGCCAGCTGCGCTTGCTGCGCGGGGAGCTGGGCCGCTT TCCGCCCGAGGAGTCTCCGCCGGCGCCGTCGCGCTCTCTGGCCCCGGTCCCGGTGG GGACGTGCGCTCCGCCCGAAGGGGTGCCCGCCTGCGGCCGGCGGCCCGCGCGCCTC CTGCCTCTCCGGGAACACCGGGCCCTGTGCGGATCCCGCAGCCCGGACTTTCGCAG CGCCTTCCGCCGTCTTCTGTGCCGCTGCGGCCGTCGCCTGCCTCCGGAGCCCTGCG CCGCCGCCCGCCCGGCCCTCTTCCCCTCGGGCGTTCCTGCGGCCCGGAGCAGCCCA GCGCAGCCCAGGCTTTGCCAACGGCTCGACGGGGCTTCTTGGGGAGTTTCTTAG				
Human ADRB3 AA227-409	14	GTTTTCGTGGTGGCTACGCGCCAGCTGCGCTTGCTGCGCGGGGAGCTGGGCCGCTT TCCGCCCGAGGAGTCTCCGCCGGCGCCGTCGCGCTCTCTGGCCCCGGTCCCGGTGG GGACGTGCGCTCCGCCCGAAGGGGTGCCCGCCTGCGGCCGGCGGCCCGCGCGCCTC CTGCCTCTCCGGGAACACCGGGCCCTGTGCACCTTGGGTCTCATCATGGGCACCTT CACTCTCTGCTGGTTGCCCTTCTTTCTGGCCAACGTGCTGCGCGCCCTGGGGGGCC CCTCTCTAGTCCCGGGCCCGGCTTTCCTTGCCCTGAACTGGCTAGGTTATGCCAAT TCTGCCTTCAACCCGCTCATCTACTGCCGCAGCCCGGACTTTCGCAGCGCCTTCCG CCGTCTTCTGTGCCGCTGCGGCCGTCGCCTGCCTCCGGAACCCTGCGCCGCCGCCC GCCCGGCCCTCTTCCCCTCGGGCGTTCCTGCGGCCCGGAGCAGCCCAGCGCAGCCC AGGCTTTGCCAACGGCTCGACGGGGCTTCTTGGGGAGTTTCTTAG				
Human OBR-GRP AA51-71	15	ATTGCCAAAAGAGTCACCTATGACTCAGATGCAACCAGTAGTGCCTGTCGGGAACT GGCATATTAG				
Human OBR-GRP AA51-132	16	GTTTTCGTGGTGGCTACGCGCCAGCTGCGCTTGCTGCGCGGGGAGCTGGGCCGCTT TCCGCCCGAGGAGTCTCCGCCGGCGCCGTCGCGCTCTCTGGCCCCGGTCCCGGTGG GGACGTGCGCTCCGCCCGAAGGGGTGCCCGCCTGCGGCCGGCGGCCCGCGCGCCTC CTGCCTCTCCGGGAACACCGGGCCCTGTGCACCTTGGGTCTCATCATGGGCACCTT CACTCTCTGCTGGTTGCCCTTCTTTCTGGCCAACGTGCTGCGCGCCCTGGGGGGCC CCTCTCTAGTCCCGGGCCCGGCTTTCCTTGCCCTGAACTGGCTAGGTTATGCCAAT TCTGCCTTCAACCCGCTCATCTACTGCCGCAGCCCGGACTTTCGCAGCGCCTTCCG CCGTCTTCTGTGCCGCTGCGGCCGTCGCCTGCCTCCGGAACCCTGCGCCGCCGCCC GCCCGGCCCTCTTCCCCTCGGGCGTTCCTGCGGCCCGGAGCAGCCCAGCGCAGCCC				

		AGGCTTTGCCAACGGCTCGACGGGGCTTCTTGGGGAGTTTCTTAG				
Human MEL1AR AA120-351	17	GGCATCGCCATCAACCGCTACTGCTACATCTGCCACAGTCTCAAGTACGACAAACT GTACAGCAGCAAGAACTCCCTCTGCTACGTGCTCCTCATATGGCTCCTGACGCTGG CGGCCGTCCTGCCCAACCTCCGTGCAGGGACTCTCCAGTACGACCCGAGGATCTAC TCGTGCACCTTCGCCCAGTCCGTCAGCTCCGCCTACACCATCGCCGTGGTGGTTTT CCACTTCCTCGTCCCCATGATCATAGTCATCTTCTGTTACCTGAGAATATGGATCC TGGTTCTCCAGGTCAGACAGAGGGTGAAACCTGACCGCAAACCCAAACTGAAACCA CAGGACTTCAGGAATTTTGTCACCATGTTTGTGGTTTTTGTCCTTTTTGCCATTTG CTGGGCTCCTCTGAACTTCATTGGCCTGGCCGTGGCCTCTGACCCCGCCAGCATGG TGCCTAGGATCCCAGAGTGGCTGTTTGTGGCCAGTTACTACATGGCGTATTTCAAC AGCTGCCTCAATGCCATTATATACGGGCTACTGAACCAAAATTTCAGGAAGGAATA CAGGAGAATTATAGTCTCGCTCTGTACAGCCAGGGTGTTCTTTGTGGACAGCTCTA ACGACGTGGCCGATAGGGTTAAATGGAAACCGTCTCCACTGATGACCAACAATAAT GTAGTAAAGGTGGACTCCGTTTAA				
Human MEL1AR AA120-351	18	GCCATCGCCATTAACCGCTACTGCTACATCTGCCACAGCATGGCCTACCACCGAAT CTACCGGCGCTGGCACACCCCTCTGCACATCTGCCTCATCTGGCTCCTCACCGTGG TGGCCTTGCTGCCCAACTTCTTTGTGGGGTCCCTGGAGTACGACCCACGCATCTAT TCCTGCACCTTCATCCAGACCGCCAGCACCCAGTACACGGCGGCAGTGGTGGTCAT CCACTTCCTCCTCCCTATCGCTGTCGTGTCCTTCTGCTACCTGCGCATCTGGGTGC TGGTGCTTCAGGCCCGCAGGAAAGCCAAGCCAGAGAGCAGGCTGTGCCTGAAGCCC AGCGACTTGCGGAGCTTTCTAACCATGTTTGTGGTGTTTGTGATCTTTGCCATCTG CTGGGCTCCACTTAACTGCATCGGCCTCGCTGTGGCCATCAACCCCCAAGAAATGG CTCCCCAGATCCCTGAGGGGCTATTTGTCACTAGCTACTTACTGGCTTATTTCAAC AGCTGCCTGAATGCCATTGTCTATGGGCTCTTGAACCAAAACTTCCGCAGGGAATA CAAGAGGATCCTCTTGGCCCTTTGGAACCCACGGCACTGCATTCAAGATGCTTCCA AGGGCAGCCACGCGGAGGGGCTGCAGAGCCCAGCTCCACCCATCATTGGTGTGCAG CACCAGGCAGATGCTCTCTAG				
Human SOCS3 AA1-226	19	ATGGTCACCCACAGCAAGTTTCCCGCCGCCGGGATGAGCCGCCCCCTGGACACCAG CCTGCGCCTCAAGACCTTCAGCTCCAAGAGCGAGTACCAGCTGGTGGTGAACGCAG TGCGCAAGCTGCAGGAGAGCGGCTTCTACTGGAGCGCAGTGACCGGCGGCGAGGCG AACCTGCTGCTCAGTGCCGAGCCCGCCGGCACCTTTCTGATCCGCGACAGCTCGGA CCAGCGCCACTTCTTCACGCTCAGCGTCAAGACCCAGTCTGGGACCAAGAACCTGC GCATCCAGTGTGAGGGGGGCAGCTTCTCTCTGCAGAGCGATCCCCGGAGCACGCAG CCCGTGCCCCGCTTCGACTGCGTGCTCAAGCTGGTGCACCACTACATGCCGCCCCC TGGAGCCCCCTCCTTCCCCTCGCCACCTACTGAACCCTCCTCCGAGGTGCCCGAGC AGCCGTCTGCCCAGCCACTCCCTGGGAGTCCCCCCAGAAGAGCCTATTACATCTAC TCCGGGGGCGAGAAGATCCCCCTGGTGTTGAGCCGGCCCCTCTCCTCCAACGTGGC CACTCTTCAGCATCTCTGTCGGAAGACCGTCAACGGCCACCTGGACTCCTATGAGA AAGTCACCCAGCTGCCGGGGCCCATTCGGGAGTTCCTGGACCAGTACGATGCCCCG				

		CTTTAATTAA				
Human GIT1 AA130-382	20	GCCAAAGACCTCAGCAAGCAACTACACTCGAGCGTGCGGACAGGCAACCTGGAGAC ATGTCTGCGCCTGCTCTCCCTGGGTGCCCAGGCCAACTTCTTCCACCCAGAGAAGG GCACCACACCTCTGCACGTGGCTGCCAAGGCAGGACAGACACTGCAGGCCGAGCTG CTTGTAGTGTATGGGGCTGACCCTGGCTCCCCTGATGTTAATGGCCGCACACCCAT TGACTATGCCAGGCAGGCGGGGCACCATGAGCTGGCGGAAAGGCTGGTTGAGTGCC AATATGAGCTCACTGACCGGCTGGCCTTCTACCTCTGTGGACGCAAGCCGGATCAC AAGAATGGGCATTACATCATCCCACAGATGGCTGACAGCCTTGACTTATCCGAATT GGCCAAAGCTGCTAAGAAGAAGCTGCAGGCGCTCAGCAACCGGCTTTTTGAGGAAC TCGCCATGGACGTGTATGACGAGGTGGATCGAAGAGAAAATGATGCAGTGTGGCTG GCTACCCAAAACCACAGCACTCTGGTGACAGAGCGCAGTGCTGTGCCCTTCCTGCC TGTTAACCCGGAATACTCAGCCACGCGGAATCAGGGGCGACAAAAGCTGGCCCGCT TTAATGCCCGAGAGTTTGCCACCTTGATCATCGACATTCTCAGTGAGGCCAAGCGG AGACAGCAGGGCAAGAGCCTGAGCAGCCCCACAGACAACCTCGAGCTGTCTCTGCG GAGCCAGAGTGACCTCGACGACCAACACGACTACGACAGCGTGGCCTCTGACGAGG ACACA				

Human GIT1 AA371-761	21	CTGCGGAGCCAGAGTGACCTCGACGACCAACACGACTACGACAGCGTGGCCTCTGA CGAGGACACAGACCAGGAGCCCCTGCGCAGCACCGGCGCCACTCGGAGCAACCGGG CCCGGAGCATGGACTCCTCGGACTTGTCTGACGGGGCTGTGACGCTGCAGGAGTAC CTGGAGCTGAAGAAGGCCCTGGCTACATCGGAGGCAAAGGTGCAGCAGCTCATGAA GGTCAACAGTAGCCTGAGCGACGAGCTCCGGAGGCTGCAGCGAGAGATCCACAAGC TGCAGGCGGAGAACCTGCAGCTCCGGCAGCCTCCAGGGCCGGTGCCCACACCTCCA CTCCCCAGTGAACGGGCGGAACACACACCCATGGCGCCAGGCGGGAGCACACACCG CAGGGATCGCCAGGCCTTTTCCATGTATGAACCTGGCTCTGCCCTGAAGCCCTTTG GGGGCCCCCCTGGGGACGAGCTCACTACGCGGCTGCAGCCTTTCCACAGCACTGAG CTAGAGGACGACGCCATCTATTCAGTGCACGTCCCTGCTGGCCTTTACCGGATCCG GAAAGGGGTGTCTGCCTCAGCTGTGCCCTTCACTCCCTCCTCCCCGCTGCTGTCCT GCTCCCAGGAGGGAAGCCGCCACACGAGCAAGCTTTCCCGCCACGGCAGTGGAGCC GACAGTGACTATGAGAACACGCAAAGTGGGGACCCACTGCTGGGGCTGGAAGGGAA GAGGTTTCTAGAGCTGGGCAAAGAGGAAGACTTCCACCCAGAGCTGGAAAGCCTGG ATGGAGACCTAGATCCTGGGCTTCCCAGCACAGAGGATGTCATCTTGAAGACAGAG CAGGTCACCAAGAACATTCAGGAACTGTTGCGGGCAGCCCAGGAGTTCAAGCATGA CAGCTTCGTGCCCTGCTCAGAGAAGATCCATTTGGCTGTGACCGAGATGGCCTCCC TCTTCCCAAAGAGGCCAGCCCTGGAGCCAGTGCGGAGCTCACTGCGGCTGCTCAAC GCCAGCGCCTACCGGC				

Table 2: bait-prey interactions

1: Bait name	2: Bait nucleic acid SEQ ID No.	3: Bait construction	4: Prey name	5: Prey construction
Human ADRB3_v4	1	pB6	hgx36 (CUL3; Cullin 3; prey3708; prey3709; prey3706) hCUL3 hKIAA0617 hCUL3	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey3077 (FLJ14225; prey3078) hFLJ14225	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey15561 (IL7R CD127; prey15563) hIL7R	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey95111	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey95114 (SACM2L ARE1 SAC2 ARE 1 DKFZp547I194 RP5 1033B10) hSACM2L	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey95164 (LOC130543) hsimilar toALS2CR4	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey50364 (ADAM17 TACE CSVP CD156b) hADAM17	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey95122	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey95124	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey95125 (HSPC129 HSPC058) hHSPC129	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey36832 (ST13 HIP HSPABP HSPABP1 SNC6 PRO0786 P48 HOP; prey36834) hST13 hp48	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	hgx33 hsterol regulatory element bindingprotein 2 hSREBF2	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey11327 (KIAA0494; prey11328) hKIAA0494	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey3486 (PM5; prey3487) hPM5 hpM5	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey12665 (CREBL1 CREB RP G13; prey12666) hCREBL1 hG13	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey95141	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey95143 (EPIM STX2C STX2B STX2A) hEPIM	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey50604 (CRIM1; prey50605) hCRIM1 hcysteine rich repeat containing protein S52precursor	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey15532 (SREBF1 SREBP1; prey15533) hSREBF1 hSREBP 1	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey46457 (GOLPH1 GCP60 PAP7; prey46458) hGOLPH1 hgcp60	Differentiated PAZ6 RP 1

Human ADRB3_v4	1	pB6	prey18689 (prey18687) hring finger protein5 hRNF5 hHsRma1 hRNF5	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey50625 (CDH11 CAD11 OB CDHOB OSF 4) hCDH11	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey66274 (SFRS10 SRFS10 Htra2 beta TRA2B) hSFRS10	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey95183	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey95197 (LRPPRC GP130 CLONE 23970) hLRPPRC	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey53758 (LOC51054; prey53760) hLOC51054 hputative glycolipid transferprotein	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey68357 (PITPNM DRES9) hPITPNM	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	hgx197 (BNIP3L BNIP3A NIX; prey50403; prey50404) hBNIP3L hNIX	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey95209 (PODLX2) hPODLX2	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey35075 (DDX24; prey35074) hDDX24	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey95217	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey34104 (ATF6; prey34106) hATF6	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey9030 (UTRN DMDL DRP1 DRP; prey9031) hUTRN hutrophin (dystrophin relatedprotein)	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey53847 (UBQLN2 CHAP1/DSK2 HRIHFB2157 PLIC 2 PLIC2 CHAP1) hUBQLN2	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey3031 hSNARE associated proteinsnapin	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey3488 (ACF7 ABP620 KIAA1251 KIAA0465) hACF7	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey95234 (LOC163882) hhypothetical proteinXP_089211	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey95239 (KIAA1265) hKIAA1265	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey2133 hNY BR 16	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey95244	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey95245	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey95246	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey3777	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey15654 (PXF HK33 D1S2223E PEX19; prey15655; prey15653) hPXF hPxF hPEX19	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey95251 (LOC164223) hhypothetical proteinXP_092729	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey3518 (LOC91610) hLOC91610	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey26605 hRan GTP bindingproteinRanBP6	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey95257 (HT008 KIAA1738) hHT008	Differentiated PAZ6 RP 1
Human ADRB3_v4	1	pB6	prey92124 (KIAA0268) hKIAA0268	Differentiated PAZ6 RP 1
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	pB6	prey97470 (KIAA0776) hKIAA0776	Differentiated PAZ6 RP 1

Human ADRB3_v2 (Human ADRB3 AA348-409)	2	pB6	prey18289 (BIG1 ARFGEP1 P200 DKFZP434L057; prey18291) hBIG1 hbrefeldin A inhibited guanine nucleotide exchange protein1	Differentiated PAZ6 RP 1
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	pB6	prey92124 (KIAA0268) hKIAA0268	Differentiated PAZ6 RP 1
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	pB6	prey4578 (PSAP SAP1 GLBA; prey5664) hPSAP hGLBA	Differentiated PAZ6 RP 1
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	pB6	prey4465 (ganp; prey4466; prey19441) hganp hKIAA0572 hMCM3AP	Differentiated PAZ6 RP 1
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	pB6	prey97479	Differentiated PAZ6 RP 1
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	pB6	prey2999 (ACTN4 FSGS FSGS1; prey3001) hACTN4	Differentiated PAZ6 RP 1
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	pB6	prey6586 (FLNA ABPX ABP 280 FLN FLN1 NHBP; prey6587) hFLNA	Differentiated PAZ6 RP 1
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	pB6	prey97485	Differentiated PAZ6 RP 1
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	pB6	prey5847 (TINF2 TIN2; prey5848) hTINF2	Differentiated PAZ6 RP 1
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	pB6	prey1989 (LAMB2 LAMS; prey1990) hLAMB2	Differentiated PAZ6 RP 1
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	pB6	prey700 (RANBP9 RANBPM RANBP9 PENDING; prey701) hRANBP9 hRanBPM	Differentiated PAZ6 RP 1
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	pB6	prey4629 (SPTBN1; prey4630) hSPTBN1	Differentiated PAZ6 RP 1
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	pB6	prey97498	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98837	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98838	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98841	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98849 (LOC146179) hsimilar to hypotheticalprotein	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey94623 hretinoblastoma associated factor600	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98920	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98852	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98854	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98858	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98863	Differentiated PAZ6 RP 1

Human ADRB3_v1	3	pB6	prey49299 (MADHIP SARA; prey49300) hMADHIP hNSP	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98869	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98871	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98873	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98885	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98887	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey700 (RANBP9 RANBPM RANBP9 PENDING; prey701) hRANBP9 hRanBPM	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98888	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey3033 (prey36964; prey3034) hSNAPAP hSNAPAP hsnapin	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98889	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey53847 (UBQLN2 CHAP1/DSK2 HRIHFB2157 PLIC 2 PLIC2 CHAP1) hUBQLN2	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98896	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98902	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey2866	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey96391 (KIFAP3 SMAP GDS FLJ22818 dJ190I16.1 KAP3 Smg) hKIFAP3	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98906	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey45676 (SRI SCN; prey45677) hSRI	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98908	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98910	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98913	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98914	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98915	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98919	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey95094 (LIV 1) hLIV 1	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey4629 (SPTBN1; prey4630) hSPTBN1	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98922	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98924	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98925	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98936	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98940 (KIAA0433) hKIAA0433	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98942	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98943	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98944	Differentiated PAZ6 RP 1

Human ADRB3_v1	3	pB6	hgx36 (CUL3; Cullin 3; prey3708; prey3709; prey3706) hCUL3 hKIAA0617 hCUL3	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98950	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98955	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98956	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98957	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98958	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey2557 (FLJ12565; prey2558) hFLJ12565	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98963	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey92609 (P66 KIAA1150) hP66	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98967	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98968	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey99003	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98981	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey96448 (LOC116238) hsimilar to RIKEN cDNA 0610030G03gene	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey2109 (COPS5 JAB1 SGN5 MOV 34; prey2110) hCOPS5 h38 kDa Mov34homolog	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey98989	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey3559 (KIAA0144; prey3562; prey3563) hKIAA0144	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	hgx159 (P85SPR KIAA0142 BETA PIX; prey6978; prey6979) hP85SPR hKIAA0142	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey3777	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey3518 (LOC91610) hLOC91610	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey99002	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey99006	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey99010 (GPR) hGPR	Differentiated PAZ6 RP 1
Human ADRB3_v1	3	pB6	prey99016	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey94623 hretinoblastoma associated factor600	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey2109 (COPS5 JAB1 SGN5 MOV 34; prey2110) hCOPS5 h38 kDa Mov34homolog	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey51967 (UBQLN1 DSK2 PLIC 1 DA41 XDRP1) hUBQLN1	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey2133 hNY BR 16	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey4578 (PSAP SAP1 GLBA; prey5664) hPSAP hGLBA	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey44830 (XPOT) hXPOT	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey1687 (DCTN1) hDCTN1	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey2557 (FLJ12565; prey2558) hFLJ12565	Differentiated PAZ6 RP 1

Human ADRB3_v3	4	pB6	prey96222	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey700 (RANBP9 RANBPM RANBP9 PENDING; prey701) hRANBP9 hRanBPM	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey96234	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey4594 (prey4592) hKPNB1	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey96420	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey94498 (CPSF2 KIAA1367) hCPSF2	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey96254	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey96258	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey96260 (GROS1) hGROS1	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey4629 (SPTBN1; prey4630) hSPTBN1	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey4629 (SPTBN1; prey4630) hSPTBN1	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey4629 (SPTBN1; prey4630) hSPTBN1	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey18417 (LAMB1; prey18418) hLAMB1	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey3777	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey12375 (AKAP8 AKAP95 DKFZP586B1222; prey12377) hAKAP8 hakap95	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey53847 (UBQLN2 CHAP1/DSK2 HRIHFB2157 PLIC 2 PLIC2 CHAP1) hUBQLN2	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey96287	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey26599 (KPNB3 RANBP5; prey26600) hKPNB3 hkaryopherin beta3	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	hgx36 (CUL3; Cullin 3; prey3708; prey3709; prey3706) hCUL3 hKIAA0617 hCUL3	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	hgx202 (PDCD4 H731; prey63144; prey63146) hPDCD4 hnuclear antigen H731 likeprotein	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey7713 (KIAA1578) hKIAA1578	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey3599 (TRIP12 KIAA0045; prey3600) hTRIP12 hKIAA0045	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey96313	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey3518 (LOC91610) hLOC91610	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey96318	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey96367	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey32851 (SSNA1 N14 NA14; prey32852) hSSNA1 hna14	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey96364	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey94531 (C1ORF12) hC1ORF12	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey96383	Differentiated PAZ6 RP 1

Human ADRB3_v3	4	pB6	prey96391 (KIFAP3 SMAP GDS FLJ22818 dJ190I16.1 KAP3 Smg) hKIFAP3	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey27035 (HSPC025; prey27036) hHSPC025	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey32510 (hklp2 HKLP2; prey32511) hhklp2	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey6586 (FLNA ABPX ABP 280 FLN FLN1 NHBP; prey6587) hFLNA	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey96409	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey92944 (BTBD1 FLJ20724) hBTBD1	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey96422	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey96423 (GCP2) hGCP2	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey96430	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey96431	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey9700 (YWHAE; prey9701) hYWHAE h14 3 3epsilon	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey35149 (prey35155) hSimilar to actin,beta hhypothetical proteinXP_037235	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey96433	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	hgx437 (MMP2 CLG4A CLG4 TBE 1; prey2840) hMMP2	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey3033 (prey36964; prey3034) hSNAPAP hSNAPAP hsnapin	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey96448 (LOC116238) hsimilar to RIKEN cDNA 0610030G03gene	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey89810 (FTL PRO2760) hFTL	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey12105 (prey12104) hM1 subunit of ribonucleotidereductase hRRM1	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey87445 (HLA Cw 0303) hHLA Cw 0303	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey96459	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey96461	Differentiated PAZ6 RP 1
Human ADRB3_v3	4	pB6	prey96464	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey98419	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey20369 (UBE1C HUBA3 DKFZp566J164; prey20370) hUBE1C hUBE1C hNedd8 activating enzymehUba3	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey98422 (PIK3R1 GRB1) hPIK3R1	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey45676 (SRI SCN; prey45677) hSRI	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey6586 (FLNA ABPX ABP 280 FLN FLN1 NHBP; prey6587) hFLNA	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey2557 (FLJ12565; prey2558) hFLJ12565	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey18159 (IARS ILRS; prey18161) hIARS hisoleucyl	Differentiated PAZ6 RP 1

			tRNAsynthetase	
Human OBRGRP_v2	5	pB6	prey72406 (VPS35 FLJ10752 DKFZp434E1211 DKFZp434P1672 FLJ13588 FLJ20388 MEM3) hVPS35	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey2109 (COPS5 JAB1 SGN5 MOV 34; prey2110) hCOPS5 h38 kDa Mov34homolog	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey98439	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey98442 (C21orf5 KIAA0933) hC21orf5	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey81117 (BAIAP2 BAP2 IRSp53) hBAIAP2	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey22 (PIASY; prey23) hPIASY hprotein inhibitor of activated STAT proteinPIASy	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey54659 (CCND1 D11S287E PRAD1 U21B31 BCL1) hCCND1	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey95617 (CDH13 CDHH) hCDH13	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey9880 (DNA PKcs; prey9878) hDNA PKcs hPRKDC	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey3033 (prey36964; prey3034) hSNAPAP hSNAPAP hsnapin	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey16974 (APC2 ANAPC2 PENDING KIAA1406; prey16976) hAPC2	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey95493 (PTGS1 PGHS 1 COX1 PHS 1 PGG/HS) hPTGS1	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey98459	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey98462	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey32369 (PCDH7 BH PCDH BHPCDH) hPCDH7	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey74583 (PCDH16 CDH19 FIB1 KIAA1773 FLJ11790) hPCDH16	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey98474	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey98475 (IDI1) hIDI1	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey98485	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	hgx36 (CUL3; Cullin 3; prey3708; prey3709; prey3706) hCUL3 hKIAA0617 hCUL3	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey700 (RANBP9 RANBPM RANBP9 PENDING; prey701) hRANBP9 hRanBPM	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey19864 (LOC92891; prey19867) hsimilar to LYSOSOMAL ACID PHOSPHATASE PRECURSOR (LAP) (H.sapiens) hACP2	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey1499 (PIK3R2 P85B; prey1500) hPIK3R2 hp85 beta	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey10497 (KIAA0372; prey10498) hKIAA0372	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey98502 (LOC153382) hhypothetical proteinXP_087661	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey86133 (GAMT) hGAMT	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey98503 (MGST1 MGST GST12 MGST I) hMGST1	Differentiated PAZ6 RP 1

Human OBRGRP_v2	5	pB6	prey16048 (FAT CDHF7 ME5; prey16049) hFAT hhFat	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey98509	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey98510	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey98513	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey5548 (KPNA6 KPNA7; prey5549) hKPNA6 himportin alpha 7subunit	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey98514	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey98516	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey72650 (FLJ10808) hFLJ10808	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey98526	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	hgx408 (SAT2_H; prey5170) hJAG1 hHJ1	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey67327 (AKAP13 HT31 BRX) hAKAP13	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey36832 (ST13 HIP HSPABP HSPABP1 SNC6 PRO0786 P48 HOP; prey36834) hST13 hp48	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey67578 (LOC121052) hhypothetical proteinXP_035313	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey98532	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey12645 (LOC93105; prey32200) hsimilar to HOMEOBOX PROTEIN OTX1 (H.sapiens)	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey32510 (hklp2 HKLP2; prey32511) hhklp2	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey33172 (HIVEP1 ZNF40; prey33173) hHIVEP1	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey25184 (UREB1 KIAA0312 HSPC272) hUREB1	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey3296 (FHOS; prey3297) hFHOS	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey98550	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey98552	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey4637 (TAF2A BA2R CCG1 CCGS NSCL2 TAFII250; prey4638; prey4639) hTAF2A	Differentiated PAZ6 RP 1
Human OBRGRP_v2	5	pB6	prey98555	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98802	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98558	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98559	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey19934 (HEF1 CAS L; prey19935) hHEF1	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey94681 (FENS 1 KIAA1435 WDF1) hFENS 1	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98578	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey93160 (ARRB1 ARR1) hARRB1	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey3777	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98583	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98773	Differentiated PAZ6 RP 1

Human OBRGRP_v4	6	pB6	prey98598	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey11988 (CTNND1 CTNND P120CAS P120CTN KIAA0384) hCTNND1	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98600	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey89311 (PRKCSH G19P1) hPRKCSH	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98613	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98679	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey3518 (LOC91610) hLOC91610	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey46035 (NFKBIL2 IKBR; prey46037) hNFKBIL2 hnuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor like2	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey25486 (KIAA1694) hKIAA1694	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98681	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98683	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98692	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98699	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98703	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98705	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98706	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98731	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey51967 (UBQLN1 DSK2 PLIC 1 DA41 XDRP1) hUBQLN1	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98736	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98738	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98741	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	hgx33 hsterol regulatory element bindingprotein 2 hSREBF2	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98753	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98755	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98775	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98786	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey98793	Differentiated PAZ6 RP 1
Human OBRGRP_v4	6	pB6	prey84331	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94565	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94567	Differentiated PAZ6 RP 1
Human Melatonin 1a	7	pB6	prey15008 (MRGX; prey3663; prey15009; prey3662) hMRGX	Differentiated PAZ6 RP 1

receptor_v4			hKIAA0026 hKIAA0026 hMSL3 2protein	
Human Melatonin 1a receptor_v4	7	pB6	prey94569 (PRC1) hPRC1	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey3671 (PRKAR1A CNC1 CAR TSE1 PRKAR1; prey3673) hPRKAR1A	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94572	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey92602 (ST13 HIP HOP P48 SNC6 HSPABP HSPABP1 PRO0786) hST13	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey3684 (KIAA0410; prey3685) hKIAA0410	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94574	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94575	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey3772 (TGFBI BIGH3 CDGG1 CSD CSD2 CDB1 CSD1 CSD3 LCD1; prey3773) hTGFBI hBIGH3	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94580	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94581	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey3775 (HNRPH1 HNRNPH HNRPH; prey3776) hHNRPH1 hhnRNPH	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94583	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94584	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey78471 (FLJ20199) hFLJ20199	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94587	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94588	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94589	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey3782 (COL6A1; prey3783) hCOL6A1	Differentiated PAZ6 RP 1
Human Melatonin 1a	7	pB6	prey94590	Differentiated PAZ6 RP 1

receptor_v4				
Human Melatonin 1a receptor_v4	7	pB6	prey94592	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94593	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94595	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94598	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey3599 (TRIP12 KIAA0045; prey3600) hTRIP12 hKIAA0045	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94602	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94604	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey3549 (C3IP1; prey3550) hC3IP1 hkelch like proteinC3IP1	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey3518 (LOC91610) hLOC91610	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94610	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey3736 (MPDZ MUPP1; prey3737) hMPDZ hMUPP1	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey3712 (PTPN13 PTP BAS PTP1E PTPL1; prey3717) hPTPN13 hprotein tyrosine phosphatase (PTP BAS, type2)	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey3722 (COL6A3; prey3723; prey3724) hCOL6A3	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94624	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94626	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94629	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94631	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94633	Differentiated PAZ6 RP 1
Human Melatonin 1a	7	pB6	prey94643	Differentiated PAZ6 RP 1

receptor_v4				
Human Melatonin 1a receptor_v4	7	pB6	prey3789 (PLSCR1 MMTRA1B; prey3791) hPLSCR1 hhMmTRA1b	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94648	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94650 (KIAA1949) hKIAA1949	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94656	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94663 (LOC149128) hhypothetical proteinXP_086435	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey3559 (KIAA0144; prey3562; prey3563) hKIAA0144	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey1123 (XPC XPCC; prey1125) hXPC hXPCC	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey3794 hhypothetical proteinFLJ10461	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94676	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey2109 (COPS5 JAB1 SGN5 MOV 34; prey2110) hCOPS5 h38 kDa Mov34homolog	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94681 (FENS 1 KIAA1435 WDF1) hFENS 1	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey36832 (ST13 HIP HSPABP HSPABP1 SNC6 PRO0786 P48 HOP; prey36834) hST13 hp48	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey79259 (BAT3 D6S52E G3) hBAT3	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94692	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94694	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey79129 htranscription repressorp66	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94712	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey3702 (TK1; prey3704; prey3701) hTK1 hTK2 hTK1	Differentiated PAZ6 RP 1
Human Melatonin 1a	7	pB6	prey94718	Differentiated PAZ6 RP 1

receptor_v4				
Human Melatonin 1a receptor_v4	7	pB6	prey2415 (ACTN1) hACTN1	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94722	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94724	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94732	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94734	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94735	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94736	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94741	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94743	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey3621 (GALNS MPS4A GALNAC6S GAS) hGALNS	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94747	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey3604 hputative ATP dependent RNA helicaseROK1	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey3640 (RBM12; prey3639) hRBM12	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94769	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94786	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94788	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94790	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey3809 (MGC15429; prey3810; prey3808) hMGC15429 hUnknown (protein forMGC:15429) hMGC15429	Differentiated PAZ6 RP 1
Human Melatonin 1a	7	pB6	prey3798 (P125; prey3801; prey3802) hP125	Differentiated PAZ6 RP 1

receptor_v4			hphospholipase	
Human Melatonin 1a receptor_v4	7	pB6	prey3033 (prey36964; prey3034) hSNAPAP hSNAPAP hsnapin	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey1469 (COL3A1; prey1473; prey19974; prey22635) hCOL3A1 hprepro alpha 1 type 3collagen hCOL3A1	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey3634 (ZWINT HZwint 1) hZWINT	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	hgx36 (CUL3; Cullin 3; prey3708; prey3709; prey3706) hCUL3 hKIAA0617 hCUL3	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey700 (RANBP9 RANBPM RANBP9 PENDING; prey701) hRANBP9 hRanBPM	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94815	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey3842 (CEZANNE; prey3843; prey3840) hCEZANNE	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94820	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94829	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey84331	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94831	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey3596 (DDX15 HRH2 DBP1; prey3597) hDDX15 hATP dependent RNA helicase#46	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94836 (KIAA1879) hKIAA1879	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey3851 (TARS; prey3852) hTARS hthreonyl tRNAsynthetase	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94840	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94843	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94846	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey3756 (LCCP KIAA0989; prey3757) hLCCP	Differentiated PAZ6 RP 1
Human Melatonin 1a	7	pB6	prey94853	Differentiated PAZ6 RP 1

receptor_v4				
Human Melatonin 1a receptor_v4	7	pB6	prey94856	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94858	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94860	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v4	7	pB6	prey94871	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v5	8	pB6	prey2109 (COPS5 JAB1 SGN5 MOV 34; prey2110) hCOPS5 h38 kDa Mov34homolog	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v5	8	pB6	prey36384 (SLC30A1 ZNT1) hSLC30A1	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v5	8	pB6	prey96089	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v5	8	pB6	prey2557 (FLJ12565; prey2558) hFLJ12565	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v5	8	pB6	prey36832 (ST13 HIP HSPABP HSPABP1 SNC6 PRO0786 P48 HOP; prey36834) hST13 hp48	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v5	8	pB6	prey96100	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v5	8	pB6	prey3518 (LOC91610) hLOC91610	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v5	8	pB6	prey96113	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v5	8	pB6	prey96127	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v5	8	pB6	hgx33 hsterol regulatory element bindingprotein 2 hSREBF2	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v5	8	pB6	prey96124	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v5	8	pB6	prey96125	Differentiated PAZ6 RP 1
Human Melatonin 1a receptor_v5	8	pB6	prey3033 (prey36964; prey3034) hSNAPAP hSNAPAP hsnapin	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey14439 (MSH6 GTBP HNPCC5; prey14441) hMSH6 hGTBP	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey95617 (CDH13 CDHH) hCDH13	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97180	Differentiated PAZ6 RP 1

Human SOCS3_v1	9	pB6	prey96856 (LOC160143) hhypothetical proteinXP_090083	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97183 (LOC158396) hsimilar to unnamed proteinproduct	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey12105 (prey12104) hM1 subunit of ribonucleotidereductase hRRM1	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97189 (DKFZP586F1524) hDKFZP586F1524	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey15012 (FLJ20297 FLJ20756; prey15014) hFLJ20297	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey3518 (LOC91610) hLOC91610	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97324 (PDCD8 AIF) hPDCD8	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey94727 (LOC51088) hLOC51088	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey2609 (HSA242910; prey2611) hHSA242910 hN Acetylglucosamine kinase	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey18569 (AP2B1 ADTB2 CLAPB1; prey18570) hAP2B1	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey48568 (PLCG1 PLC1; prey48569) hPLCG1	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey96859	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97227 (PAXIP1L PTIP TNRC2 CAGF28 CAGF29) hPAXIP1L	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey700 (RANBP9 RANBPM RANBP9 PENDING; prey701) hRANBP9 hRanBPM	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97231	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey6586 (FLNA ABPX ABP 280 FLN FLN1 NHBP; prey6587) hFLNA	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	hgx150 (SARA) hSARA hSARA hMADHIP	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey78905 (PAM) hPAM	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey4088 (NCOR1 TRAC1 KIAA1047 NCOR1 PENDING NCOR; prey4089) hNCOR1 hnuclear receptor co repressorN CoR	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey72406 (VPS35 FLJ10752 DKFZp434E1211 DKFZp434P1672 FLJ13588 FLJ20388 MEM3) hVPS35	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey21223 (HERC1 P532 P619; prey21224) hHERC1 hp532	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97253	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey19444 (MCM3AP MAP80 KIAA0572 GANP; prey19445) hMCM3AP hMCM3 importfactor	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey1123 (XPC XPCC; prey1125) hXPC hXPCC	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey72650 (FLJ10808) hFLJ10808	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97270 (DKFZP564O1863) hDKFZP564O1863	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey4578 (PSAP SAP1 GLBA; prey5664) hPSAP hGLBA	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	hgx90 hfocal adhesionkinase hPTK2	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey376 (COL1A2 OI4; prey377; prey1809) hCOL1A2	Differentiated PAZ6 RP 1

			hprepro alpha2(I)collagen htype Icollagen	
Human SOCS3_v1	9	pB6	prey97278 (FLJ20333) hFLJ20333	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97284 (GAP1IP4BP RASA3 GAPIII) hGAP1IP4BP	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97287	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey34218 (ALS2CR3 KIAA0549 CALS C; prey34220) hALS2CR3	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97289	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey7947 (MVP LRP VAULT1) hMVP	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey3722 (COL6A3; prey3723; prey3724) hCOL6A3	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97301 (CSPG4 MCSP) hCSPG4	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey5409 (PLEC1 PLTN PCN; prey5411) hPLEC1	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97310	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey31793 (MAD2L2 MAD2B REV7) hMAD2L2	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey1469 (COL3A1; prey1473; prey19974; prey22635) hCOL3A1 hprepro alpha 1 type 3collagen hCOL3A1	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey3549 (C3IP1; prey3550) hC3IP1 hkelch like proteinC3IP1	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey17791	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey35149 (prey35155) hSimilar to actin,beta hhypothetical proteinXP_037235	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey87039 (COL12A1 BA209D8.1 DJ234P15.1) hCOL12A1	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97339 (FLJ20424) hFLJ20424	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97347	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97348 (MCM2 BM28 CDCL1 D3S3194 KIAA0030 CCNL1) hMCM2	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97358 (LOC138895) hsimilar to postsynaptic density protein(citron)	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97362 (KIAA0770) hKIAA0770	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97363	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97364 (PTGS2 COX 2 COX2 hCox 2 PHS 2 PGHS 2 PGG/HS) hPTGS2	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey68275 (TRIM32 HT2A TATIP) hTRIM32	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey87363 (SIAHBP1 FIR RoBPI PUF60) hSIAHBP1	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97383 hZRP 1	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97391 (LOC133619) hLOC133619	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey2128 (KIAA0174; prey2129) hKIAA0174	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97403 hcalcium bindingtransporter	Differentiated PAZ6 RP 1

Human SOCS3_v1	9	pB6	prey97406	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97416 (CTSK CTS02 CTSO CTSO1 CTSO2 PKND PYCD) hCTSK	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey20209 (NID2; prey20211) hNID2 hosteonidogen	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey7688 (FLNB TABP FLN1L TAP ABP 278; prey7689) hFLNB hbeta filamin	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey12054 (COPB2; prey12055) hCOPB2 hsubunit of coatomercomplex	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey51967 (UBQLN1 DSK2 PLIC 1 DA41 XDRP1) hUBQLN1	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey1922 (DLST DLTS; prey1923) hDLST hE2K	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97437	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97445 (TFDP1 DP1 DP 1 DRTF1) hTFDP1	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97455 (ACTA2 ACTSA) hACTA2	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey2109 (COPS5 JAB1 SGN5 MOV 34; prey2110) hCOPS5 h38 kDa Mov34homolog	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey69193 (SMARCC1 BAF155 CRACC1 SRG3) hSMARCC1	Differentiated PAZ6 RP 1
Human SOCS3_v1	9	pB6	prey97465 (PHF1 PHF2) hPHF1	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33085	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33080	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33086 (BPTF) hBPTF	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33089 (KIAA1345) hKIAA1345	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33106 (NFIB NFI RED NFIB2 NFIB3; prey33107) hNFIB hnuclear factorI B2	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33115	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33116	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33123 (TAGLN SM22 SMCC WS3 10; prey33124) hTAGLN hSM22	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33135 (GPNMB NMB; prey33137) hGPNMB hNMB	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33141 (ZIN; prey33142) hZIN	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey4813 (LOC96759) hhypothetical proteinXP_038221	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33146	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey8929 (KIAA0728 FLJ21489) hKIAA0728	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey4377 (NCOR2 CTG26 TNRC14 SMRTE TRAC1 TRAC 1 SMRT; prey4378) hNCOR2 hsilencing mediator of retinoic acid and thyroid hormone receptoralpha	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey5608 (KPNA1 NPI 1 RCH2 SRP1; prey5609) hKPNA1 hnucleoprotein interactor1NPI 1	Differentiated PAZ6 RP 1

Human hGIT1_v1	10	pB5	prey5420 (SRPX ETX1; prey5422) hSRPX	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33179	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey17859 (prey17861) hzyxin hZYX hzyxin	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	hgx153 (Pak2) hPak2 hPAK2	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33183	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey7099 (SRP72; prey7100) hSRP72	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey4310 (LOC113729) hsimilar to SET binding factor 1 (H.sapiens)	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey20288 (DKFZP434I116) hDKFZP434I116	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33191 (MAPKKK5; prey33189) hMAPKKK5 hMAP3K5	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33198 (EEF1B2 EEF1B1; prey33200) hEEF1B2 helongation factor1 beta	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33202	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey5528 (KIAA0999 FLJ12240) hKIAA0999	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey1596 (MCM7 MCM2 CDC47) hMCM7	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33216 (ABCA7 ABCX ABCA SSN; prey33218) hABCA7 hABCA7/ABCA SSN	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33221 (prey33220) hp400 SWI2/SNF2 relatedprotein hTNRC12	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33222	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33290	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey7132 (PIP5K2A; prey7133) hPIP5K2A hPIPK	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey25486 (KIAA1694) hKIAA1694	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey5537 (TNKL; prey5539) hTNKL	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33226	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33232 (SET07; prey33233) hSET07	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey17072 (STAG2; prey17073) hSTAG2 hnuclear proteinSA 2	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33235	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey3599 (TRIP12 KIAA0045; prey3600) hTRIP12 hKIAA0045	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33236	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33237 (LOC93268) hhypothetical proteinXP_050158	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33239 (MAGE1 KIAA1859 MGC3210; prey33240) hMAGE1 hMAGE E1c	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey7033 (PHF3; prey7032; prey5559; prey5558) hPHF3 hKIAA0244 hKIAA0244 hKIAA0244	Differentiated PAZ6 RP 1

Human hGIT1_v1	10	pB5	prey3514 (SNX1; prey3515) hSNX1	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	hgx178 hTRF1 interacting ankyrin related ADP ribosepolymerase hTNKS	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33302	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33265 (KIAA0750; prey33266) hKIAA0750	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey1315 (KIAA0461) hKIAA0461	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33342 (prey33340; prey33341)	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey1323 (DLAT DLTA PDC E2; prey1322) hDLAT	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33269 (prey33270) hneighbor of A kinase anchoring protein95 hNAKAP95 hLA95protein	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey4271 (KIAA0661 RBP95; prey4272) hKIAA0661	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33280 (FLJ10111 FLJ23501; prey33279) hFLJ10111	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33285	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33286	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey19340 (FLJ10707; prey19341) hFLJ10707	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey11988 (CTNND1 CTNND P120CAS P120CTN KIAA0384) hCTNND1	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey5365 (HRIHFB2436; prey5366) hHRIHFB2436 h	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey2999 (ACTN4 FSGS FSGS1; prey3001) hACTN4	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33304	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey700 (RANBP9 RANBPM RANBP9 PENDING; prey701) hRANBP9 hRanBPM	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey21299 (KIAA1300) hKIAA1300	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey20344 (FLJ12892 DKFZp434L1050) hFLJ12892	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey20344 (FLJ12892 DKFZp434L1050) hFLJ12892	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33307	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey4629 (SPTBN1; prey4630) hSPTBN1	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey4629 (SPTBN1; prey4630) hSPTBN1	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey691 (HBS1L HBS1 ERFS KIAA1038; prey693) hHBS1L heRFS	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey5306 (FLJ22055; prey5307) hFLJ22055	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey5374 (prey36093; prey36092; prey36088; prey36087) hPRO2640 hribosomal proteinS14 hribosomal proteinS14 hRPS14 hRPS14	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33308	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33310	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey10043 (SNX6; prey10044; prey10052) hSNX6 hUnknown	Differentiated PAZ6 RP 1

			(protein forMGC:3157)	
Human hGIT1_v1	10	pB5	prey5409 (PLEC1 PLTN PCN; prey5411) hPLEC1	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey12823 (ORC2L Orc2; prey12824; prey12825) hORC2L hOrc2	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33313	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33315 putative homolog of prey033314	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33327 (AD 003; prey33328) hAD 003 hadrenal gland proteinAD 003	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33329	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33333 (NFIC CTF NF I NFI CTF5; prey33334) hNFIC hNF1 C	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	hgx159 (P85SPR KIAA0142 BETA PIX; prey6978; prey6979) hP85SPR hKIAA0142	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33346	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey5445 (UMP CMPK; prey5446) hUMP CMPK hUMP CMPkinase	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey3296 (FHOS; prey3297) hFHOS	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33348	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33349	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey575 (BAZ2A TIP5 KIAA0314; prey1481) hBAZ2A	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey9593 (FTH1 FTHL6; prey9596; prey9592; prey9594; prey9595) hFTH1	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33350	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey19772 (MTA1) hMTA1	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey19182 (M96; prey19183) hM96	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey5548 (KPNA6 KPNA7; prey5549) hKPNA6 himportin alpha 7subunit	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey9818 hMGC:14883	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33358 (prey33356; prey33357)	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey32017 (DAXX DAP6 BING2; prey32021) hDAXX hhDaxx	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33361	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey21907 (FLJ21016; prey21908) hFLJ21016	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33364 (FRK RAK; prey33365) hFRK	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33367	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey5574 (MMS19L MMS19 MET18 HMMS19; prey5575) hMMS19L hMMS19	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey10784 (ITGB3BP HSU37139 NRIF3 TAP20; prey10785)	Differentiated PAZ6 RP 1

			hITGB3BP hNRIF3	
Human hGIT1_v1	10	pB5	prey33374 (PIP5K1A; prey33377) hPIP5K1A h68 kDa type I phosphatidylinositol 4 phosphate 5 kinasealpha	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey17667 (LOC51164; prey17669) hLOC51164 hdynactin p62subunit	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey5511 (ADCY9; prey5512) hADCY9 hadenylyl cyclase typeIX	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey7014 (GGA1 DKFZP434A033; prey7016; prey7015) hGGA1	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	hgx156 (LARG) hLARG hARHGEF12	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey10523 (FBP17 KIAA0554) hFBP17	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33385 (FANCG XRCC9 Fanconi anemia, complementation group G; prey33386; prey33383) hFANCG hFAG hFANCG	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33389 (HR HSA277165 AU ALUNC; prey33390) hHR	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33399 (prey33397; prey33398)	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey5388 (SF3A3 SF3A60 SAP61 PRP9; prey5389) hSF3A3 hSAP 61	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33401	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33402 (DKFZP762N2316 KIAA1803) hDKFZP762N2316	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33406	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey16866 (APLP2 APPH APPL2) hAPLP2	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33412	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey3879 (PARVA; prey3877; prey3876) hPARVA hPARVA hPARVA	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey1551 (TCEB3 SIII; prey1552) hTCEB3 helonginA	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33426 (SLB KIAA1179 DKFZP434A163; prey33425) hSLB	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33431	Differentiated PAZ6 RP 1
Human hGIT1_v1	10	pB5	prey33434 (prey20182; prey20277; prey21674; prey21707; prey27890; prey27924)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey2406 (BIRC6 KIAA1289; prey2407) hBIRC6 hubiquitin conjugating BIR domain enzymeAPOLLON	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey700 (RANBP9 RANBPM RANBP9 PENDING; prey701) hRANBP9 hRanBPM	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey4221 (TRIO; prey4223) hTRIO hTrio	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey1512 (MCRS1 ICP22BP MSP58 P78; prey1513) hMCRS1 hcell cycle regulated factorp78	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey1566 (GOLGA5; prey19240) hGOLGA5 hKIAA0855	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey4271 (KIAA0661 RBP95; prey4272) hKIAA0661	Differentiated PAZ6 RP 1

Human hGIT1_v4	11	pB6	prey24333 (prey19348; prey24332)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey4307 (SLK KIAA0204; prey4308) hSLK hKIAA0204	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey4150 (SPTAN1 (ALPHA)II SPECTRIN; prey4151) hSPTAN1	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey4098 (KIAA1095) hKIAA1095	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24302 (prey19282)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey19293 (SSH3BP1 E3B1 ABI 1 ABI1; prey19294) hSSH3BP1	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey4202 (FLJ10876; prey4204) hFLJ10876	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey4088 (NCOR1 TRAC1 KIAA1047 NCOR1 PENDING NCOR; prey4089) hNCOR1 hnuclear receptor co repressorN CoR	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey4377 (NCOR2 CTG26 TNRC14 SMRTE TRAC1 TRAC 1 SMRT; prey4378) hNCOR2 hsilencing mediator of retinoic acid and thyroid hormone receptoralpha	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24308 (prey19298)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey19306	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey19309 hIMAGE:4333276	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey2026 (HSPC126 DRIP36; prey2028) hHSPC126	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24318 (prey19324)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey3596 (DDX15 HRH2 DBP1; prey3597) hDDX15 hATP dependent RNA helicase#46	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey15125 (KIAA1010) hKIAA1010	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey12722 (CDR2 CDR62; prey12721) hCDR2	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey1857 (U5 100K; prey1858) hU5 100K hU5 snRNP 100 kDprotein	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey2492 (FLJ11026; prey2493) hFLJ11026	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24328 (prey19337)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey2097 (CENPF PRO1779 CENF; prey2098) hCENPF hmitosin	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey2097 (CENPF PRO1779 CENF; prey2098) hCENPF hmitosin	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey4138 (SNW1 SKIP NCOA 62; prey4139) hSNW1 hnuclear receptor coactivatorNCoA 62	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey2041 (KTN1 KIAA0004 CG1; prey2044) hKTN1 hKIAA0004	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey12965	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24335 (prey19350)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey19357 (IGBP1; prey19358) hIGBP1 halpha 4protein	Differentiated PAZ6 RP 1

Human hGIT1_v4	11	pB6	prey2224 (PMF1; prey2225) hPMF1	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24345 (prey19365) putative homolog of prey019140 hypotheticalprotein putative homolog of prey019140	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	hgx201 hpaxillin hPXN	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey12737 (TAO1 KIAA0881; prey12738) hTAO1 hKIAA0881	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey4028 (BRD1 DKFZP434B094 BRL BRPF1; prey4029) hBRD1 hBRL	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey19375 (SUSP1 KIAA0797 SSP1 SENP6) hSUSP1	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	hgx16 (BARK1; GRK2; ADRBK1; cDNA0016; prey19377) hADRBK1	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24240 (prey19141) putative homolog of prey019140 hypotheticalprotein putative homolog of prey019140	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey2342 (TGFB1I1 ARA55 TSC 5 HIC 5 HIC5; prey2343) hTGFB1I1 handrogen receptor coactivatorARA55	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24242 (prey19146)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey454 (prey2153) htensin hTNS	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey1493 (ITPR3 IP3R3; prey1494) hITPR3	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey2337 (LOC94988) hsimilar to GASTRIN/CHOLECYSTOKININ TYPE B RECEPTOR (CCK B RECEPTOR) (CCK BR) (H.sapiens)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24253 (prey19171)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24254 (prey19175)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey2193 (KIAA0239) hKIAA0239	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey4142 (FLJ10545; prey4143) hFLJ10545	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey12834 (PPP2R3) hPPP2R3	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey12996 (PPP2R3; prey12997) hPPP2R3 hprotein phosphatase 2A 72 kDa regulatorysubunit	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey19205 (MYO1E MYO1C; prey19206) hMYO1E hmyosin IC	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey3634 (ZWINT HZwint 1) hZWINT	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey4117 (EPS8; prey4118) hEPS8 hEps8	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24349 (prey19390)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey12958 (LOC112950) hLOC112950	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey27561 (prey18940; prey19394; prey24353)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24355 (prey19396)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey2306 hHSPC296	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey11345 (HCAP; prey11344; prey11346) hHCAP hCSPG6 hSMC likeprotein	Differentiated PAZ6 RP 1

Human hGIT1_v4	11	pB6	prey4752	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24365 (prey19415)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey19402 (GAS11) hGAS11	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey1606 (RNF10 KIAA0262 RIE2; prey1607; prey12892) hRNF10 hKIAA0262 hRNF10	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24363 (prey19411) putative homolog of prey008858 hypotheticalprotein	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey2180 (TBK1 NAK; prey2181) hTBK1	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey1410 (DKFZP586J0119; prey1411; prey1409; prey1416) hDKFZP586J0119 hSimilar to eukaryotic translation initiation factor2B hDKFZP586J0119 hDKFZP586J0119	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey4796 (KIAA1067) hKIAA1067	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey3385 (NFE2L3 NRF3; prey3389; prey3384; prey3386) hNFE2L3 hNF E2 related factor3 hNFE2L3 hNFE2L3 hNrf3	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey4198 (ITSN2 KIAA1256 SH3D1B SWAP; prey4199) hITSN2 hSH3D1B	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24276 (prey19227)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey11494 (FLJ20396; prey11495) hFLJ20396	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey4384 (KIAA0665; prey4385) hKIAA0665	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey4310 (LOC113729) hsimilar to SET binding factor 1 (H.sapiens)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24315 (prey19314)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey12358 (SRP68; prey12359) hSRP68 hsignal recognition particle68	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey19318 (FLJ13633 FLJ23349; prey19319) hFLJ13633	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey3357 (YY1 DELTA NF E1 UCRBP YIN YANG 1; prey3360) hYY1 hYY1/NF E1	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey1642 (HMMR RHAMM; prey1643) hHMMR hIHABP	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey2429 (PPFIA1 LIP.1; prey2430) hPPFIA1 hLAR interacting protein1b	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey133 (ASH1; prey134) hASH1	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey4036 (LMCD1; prey4035; prey4034; prey12932; prey12931) hLMCD1 hdyxin hLMCD1	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24352 (prey19393)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24354 (prey19395)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24356 (prey19397)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey9444 (ORP150; prey9445) hORP150 h150 kDa oxygen	Differentiated PAZ6 RP 1

			regulated proteinORP150	
Human hGIT1_v4	11	pB6	prey24237 (prey19138; prey19137; prey24236)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey4017 (MTRF1 MTTRF1 RF1; prey4018) hMTRF1 htranslational release factor1	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey17402 (LOC90986) hsimilar to ZINC FINGER PROTEIN 184 (H.sapiens)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	Prey19142 (KIAA1377) hKIAA1377	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	Prey24241 (prey19145)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	Prey4031	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	Prey24248 (prey19159)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	Prey4060 (KIAA0155; prey4061; prey4062) hKIAA0155	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	Prey19163 (UBF fl FLJ14710; prey19164) hUBF fl	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	Prey4078 (HPRP3P HPRP3; prey4080) hHPRP3P hhPrp3	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	Prey2251 (FLJ14502) hFLJ14502	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	Prey9359 (FLJ10210) hFLJ10210	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	Prey4193 (PFDN1 PDF PFD1) hPFDN1	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	Prey4057 (prey4058) hPCD 17	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	Prey4278 (PCM1; prey4280) hPCM1 hPCM 1	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	Prey3346 (RALY P542; prey3348; prey3347) hRALY	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey4297 (prey4296; prey4299) hgeneral transcription factor IIH, polypeptide 1 (62kDsubunit) hGTF2H1 hBTF2	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey4319 (TTC3 DCRR1 TPRD TPRDI TPRDII TPRDIII; prey4322) hTTC3 hpossible proteinTPRDII	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey13139 (LOC92169) hLOC92169	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey19261 (DKFZP586D0623; prey19262) hDKFZP586D0623	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24301 (prey19267)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey1551 (TCEB3 SIII; prey1552) hTCEB3 helonginA	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24311 (prey19305)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey1687 (DCTN1) hDCTN1	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24357 (prey19399)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey2451 (SIL1; prey2452) hSIL1	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24310 (prey19304)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24314 (prey19310)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey19312 (BRAP BRAP2; prey19311) hBRAP	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24317 (prey19316)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey4256 (JPO1; prey4257) hJPO1	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey19326 (KIAA0996; prey19327) hKIAA0996	Differentiated PAZ6 RP 1

Human hGIT1_v4	11	pB6	prey24320 (prey19329)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey19333 (AXIN1 AXIN) hAXIN1	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey1264 (ZNF7 KOX4; prey1265) hZNF7	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey19340 (FLJ10707; prey19341) hFLJ10707	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey2010 (MYH9 MHA FTNS DFNA17) hMYH9	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24334 (prey19349)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey16529 (KIAA1075) hKIAA1075	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24338 (prey19353)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey19172 (ZNF220 MOZ; prey19173) hZNF220 hMOZ	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24257 (prey19178)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24259 (prey19189)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey4114 (KIAA0560) hKIAA0560	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey19193 (MKI67; prey19194) hMKI67 hmki 67	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey17778 (ITSN1 ITSN SH3P17 SH3D1A; prey17779) hITSN1 hintersectin longform	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24288 (prey19244)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24265 (prey19203)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey2033 (LAMC1 LAMB2; prey2034) hLAMC1 hlaminin B2	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey19218 (LOC95840) hLOC95840	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey4211 (SMC1L1 DXS423E SMC1 KIAA0178; prey4213) hSMC1L1 hSB1.8/DXS423E	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey12836 (FLJ10468; prey12837) hFLJ10468	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey24275 (prey19226)	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey2561 (DKFZP761I2123) hDKFZP761I2123	Differentiated PAZ6 RP 1
Human hGIT1_v4	11	pB6	prey1370 (ZNF145 PLZF; prey1371) hZNF145 hPLZF	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292	12	pB6	dbj|AB023216.1|AB023216 Homo sapiens mRNA for KIAA0999 protein, partial cds	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292	12	pB6	dbj|AB032976.1|AB032976 Homo sapiens mRNA for KIAA1150 protein, partial cds	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292	12	pB6	dbj|AB046785.1|AB046785 Homo sapiens mRNA for KIAA1565 protein, partial cds	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292	12	pB6	dbj|AK000867.1|AK000867 Homo sapiens cDNA FLJ10005 fis, clone HEMBA1000156	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292	12	pB6	dbj|AK023267.1|AK023267 Homo sapiens cDNA FLJ13205 fis, clone NT2RP3004534, highly similar to Mouse oncogene (ect2) mRNA	Differentiated PAZ6 RP 1

Human ADRB3 AA227-292	12	pB6	emb|AJ250915.1|HSA250915 Homo sapiens p10 gene for chaperonin 10 (Hsp10 protein) and p60 gene for chaperonin 60 (Hsp60 protein)	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292	12	pB6	emb|AL031281.6|HS224A6 Human DNA sequence from clone 224A6 on chromosome 1p35.1-36.23 Contains part of a gene similar to Mouse Wnt-4 protein, the gene for CDC42 (cell division cycle 42 (GTP-binding protein, 25kD)), ESTs, STSs, GSSs and a CpG Island, complete sequence [Homo s	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292	12	pB6	emb|AL031781.1|HS51J12 Human DNA sequence from clone 51J12 on chromosome 6q26-27. Contains the 3' part of the alternatively spliced gene for the human orthologs of mouse QKI-7 and QKI-7B (KH Domain RNA Binding proteins) and zebrafish ZKQ-1 (Quaking protein homolog). Contains	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292	12	pB6	emb|AL049563.4|HS68D15 Human DNA sequence from clone 68D15 on chromosome Xq22.3-q23, complete sequence [Homo sapiens]	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292	12	pB6	emb|AL049610.9|HS1055C14 Human DNA sequence from clone 1055C14 on chromosome Xq22.1-22.3 Contains genes for TCEAL1 (transcription elongation factor A (SII)-like 1) and KIAA0026 (transcription factor-like protein MRGX),a pseudogene similar to GLYCINE RECEPTOR ALPHA-2 CHAIN, EST	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292	12	pB6	emb|AL112552.1|CNS01A6O Botrytis cinerea strain T4 cDNA library under conditions of nitrogen deprivation	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292	12	pB6	emb|AL121754.18|HSDJ629F1 Human DNA sequence from clone RP4-629F1 on chromosome 20 Contains parts of 3 novel genes, ESTs, STSs, GSSs and a CpG Island, complete sequence [Homo sapiens]	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292	12	pB6	emb|AL137127.7|AL137127 Human DNA sequence from clone RP5-1126H10 on chromosome 1p34.3-35.3, complete sequence [Homo sapiens]	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292	12	pB6	emb|AL139384.16|AL139384 Human DNA sequence from clone RP11-88E10 on chromosome 13q33.1-34, complete sequence [Homo sapiens]	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292	12	pB6	emb|AL353732.14|AL353732 Human DNA sequence from clone RP11-354P17 on chromosome 9, complete sequence [Homo	Differentiated PAZ6 RP 1

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<tr><td></td><td></td><td></td><td>sapiens]</td><td></td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>emb|AL354720.14|AL354720 Human DNA sequence from clone RP11-505F3 on chromosome 13, complete sequence [Homo sapiens]</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>emb|Z99943.1|HS313L4 Human DNA sequence from PAC 313L4 on chromosome 1q24. Contains ESTs</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>gb|AC002055.2|AC002055 Homo sapiens Chromosome 22q13 Cosmid Clone n1g3, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>gb|AC002558.1|AC002558 Homo sapiens chromosome 17, clone hRPC867C24, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>gb|AC004626.1|HUAC004626 Homo sapiens Chromosome 16 BAC clone CIT987SK-A-427H10, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>gb|AC005324.1|AC005324 Homo sapiens chromosome 17, clone hRPK.640_I_15, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>gb|AC008074.3|AC008074 Homo sapiens clone RP11-568N6, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>gb|AC008958.6|AC008958 Homo sapiens chromosome 5 clone CTD-2353N24, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>gb|AC012467.9|AC012467 Homo sapiens chr3 BAC RP11-884K10 (Roswell Park Cancer Institute Human BAC Library) complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
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<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>gb|AC019155.4|AC019155 Homo sapiens BAC clone RP11-3B12 from 7, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>gb|AC019210.7|AC019210 Homo sapiens clone RP11-449G3, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>gb|AC022404.7|AC022404 Homo sapiens chromosome 14 clone CTD-2308C24 and RP11-757H14 map 14q31, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>gb|AC073148.7|AC073148 Homo sapiens clone RP11-801B4, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>gb|AF064862.1|AF064862 Homo sapiens chromosome 21q22.3 PAC 31P10, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
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<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>gb|AF082557.1|AF082557 Homo sapiens TRF1-interacting ankyrin-related ADP-ribose polymerase mRNA, partial cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>gb|AF097492.1|AF097492 Homo sapiens glutaminase isoform C mRNA, complete cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>gb|AF107885.2|DJ270M14 Homo sapiens chromosome 14q24.3 clone BAC270M14 transforming growth factor-beta 3 (TGF-beta 3) gene, complete cds; and unknown genes</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>gb|AF132202.1|AF132202 Homo sapiens PRO1859 mRNA, complete cds</td><td>Differentiated PAZ6 RP 1</td></tr>
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<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>ref|NM_001256.1| Homo sapiens cell division cycle 27 (CDC27), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>ref|NM_002710.1| Homo sapiens protein phosphatase 1, catalytic subunit, gamma isoform (PPP1CC), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>ref|NM_003128.1| Homo sapiens spectrin, beta, non-erythrocytic 1 (SPTBN1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>ref|NM_003130.1| Homo sapiens sorcin (SRI), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
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<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>ref|NM_003899.1| Homo sapiens PAK-interacting exchange factor beta (P85SPR), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>ref|NM_005436.1| Homo sapiens DNA segment, single copy, probe pH4 (transforming sequence, thyroid-1, (D10S170), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>ref|NM_006837.1| Homo sapiens COP9 (constitutive photomorphogenic, Arabidopsis, homolog) subunit 5 (COPS5), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
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<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>ref|NM_012437.1| Homo sapiens SNARE associated protein snapin (SNAPAP), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>ref|NM_013444.1| Homo sapiens ubiquilin 2 (UBQLN2), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>ref|NM_014679.1| Homo sapiens KIAA0092 gene product</td><td>Differentiated PAZ6 RP 1</td></tr>
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<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>ref|NM_014847.1| Homo sapiens KIAA0144 gene product (KIAA0144), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>ref|NM_014970.1| Homo sapiens smg GDS-ASSOCIATED PROTEIN (SMAP), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>ref|NM_015216.1| Homo sapiens KIAA0433 protein (KIAA0433), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
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<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>ref|NM_022329.1| Mus musculus interferon alpha responsive protein (15 kDa) (Ifrg15), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292</td><td>12</td><td>pB6</td><td>ref|XM_008724.1| Homo sapiens LIV-1 protein, estrogen regulated (LIV-1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3_v2 (Human ADRB3 AA348-409)</td><td>13</td><td>pB6</td><td>dbj|AB018319.1|AB018319 Homo sapiens mRNA for KIAA0776 protein, partial cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3_v2 (Human ADRB3 AA348-409)</td><td>13</td><td>pB6</td><td>dbj|D87742.1|D87742 Human mRNA for KIAA0268 gene, partial cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3_v2 (Human ADRB3 AA348-409)</td><td>13</td><td>pB6</td><td>emb|AJ010089.1|HSA010089 Homo sapiens mRNA for GANP protein</td><td>Differentiated PAZ6 RP 1</td></tr>
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<tr><td>Human ADRB3_v2 (Human ADRB3 AA348-409)</td><td>13</td><td>pB6</td><td>ref|NM_001456.1| Homo sapiens filamin A, alpha (actin-binding protein-280) (FLNA), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3_v2 (Human ADRB3 AA348-409)</td><td>13</td><td>pB6</td><td>ref|NM_002292.2| Homo sapiens laminin, beta 2 (laminin S) (LAMB2), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3_v2 (Human ADRB3 AA348-409)</td><td>13</td><td>pB6</td><td>ref|NM_002778.1| Homo sapiens prosaposin (variant Gaucher disease and variant metachromatic leukodystrophy) (PSAP), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3_v2 (Human ADRB3 AA348-409)</td><td>13</td><td>pB6</td><td>ref|NM_003128.1| Homo sapiens spectrin, beta, non-erythrocytic 1 (SPTBN1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3_v2 (Human ADRB3 AA348-409)</td><td>13</td><td>pB6</td><td>ref|NM_004924.1| Homo sapiens actinin, alpha 4 (ACTN4) mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3_v2 (Human ADRB3 AA348-409)</td><td>13</td><td>pB6</td><td>ref|NM_006421.2| Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3_v2 (Human ADRB3 AA348-409)</td><td>13</td><td>pB6</td><td>ref|NM_012461.1| Homo sapiens TERF1 (TRF1)-interacting nuclear factor 2 (TINF2), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
</table>

Human ADRB3 AA227-292_AA348-409	14	pB6	dbj|AB007864.1|AB007864 Homo sapiens KIAA0404 mRNA, partial cds	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292_AA348-409	14	pB6	dbj|AB007931.1|AB007931 Homo sapiens mRNA for KIAA0462 protein, partial cds	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292_AA348-409	14	pB6	dbj|AB046798.1|AB046798 Homo sapiens mRNA for KIAA1578 protein, partial cds	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292_AA348-409	14	pB6	dbj|AK000331.1|AK000331 Homo sapiens cDNA FLJ20324 fis, clone HEP09841, highly similar to AB007931 Homo sapiens mRNA for KIAA0462 protein	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292_AA348-409	14	pB6	dbj|AK000867.1|AK000867 Homo sapiens cDNA FLJ10005 fis, clone HEMBA1000156	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292_AA348-409	14	pB6	dbj|AK001912.1|AK001912 Homo sapiens cDNA FLJ11050 fis, clone PLACE1004564, highly similar to CLEAVAGE AND POLYADENYLATION SPECIFICITY FACTOR, 100 KD SUBUNIT	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292_AA348-409	14	pB6	dbj|AK022041.1|AK022041 Homo sapiens cDNA FLJ11979 fis, clone HEMBB1001282, weakly similar to ANKYRIN R	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292_AA348-409	14	pB6	dbj|AK023972.1|AK023972 Homo sapiens cDNA FLJ13910 fis, clone Y79AA1000131	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292_AA348-409	14	pB6	dbj|D86979.2|D86979 Homo sapiens mRNA for KIAA0226 protein, partial cds	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292_AA348-409	14	pB6	emb|AJ250915.1|HSA250915 Homo sapiens p10 gene for chaperonin 10 (Hsp10 protein) and p60 gene for chaperonin 60 (Hsp60 protein)	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292_AA348-409	14	pB6	emb|AL031281.6|HS224A6 Human DNA sequence from clone 224A6 on chromosome 1p35.1-36.23 Contains part of a gene similar to Mouse Wnt-4 protein, the gene for CDC42 (cell division cycle 42 (GTP-binding protein, 25kD)), ESTs, STSs, GSSs and a CpG Island, complete sequence [Homo s	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292_AA348-409	14	pB6	emb|AL031781.1|HS51J12 Human DNA sequence from clone 51J12 on chromosome 6q26-27. Contains the 3' part of the alternatively spliced gene for the human orthologs of mouse QKI-7 and QKI-7B (KH Domain RNA Binding proteins) and zebrafish ZKQ-1 (Quaking protein homolog). Contains	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292_AA348-409	14	pB6	emb|AL035453.4|HSCB42E1 Human DNA sequence from clone SC22CB-42E1 on chromosome 22q12.1-12.3 Contains part of a novel gene and GSSs, complete sequence [Homo	Differentiated PAZ6 RP 1

			sapiens]	
Human ADRB3 AA227-292_AA348-409	14	pB6	emb|AL112223.1|CNS019XJ Botrytis cinerea strain T4 cDNA library under conditions of nitrogen deprivation	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292_AA348-409	14	pB6	emb|AL121754.18|HSDJ629F1 Human DNA sequence from clone RP4-629F1 on chromosome 20 Contains parts of 3 novel genes, ESTs, STSs, GSSs and a CpG Island, complete sequence [Homo sapiens]	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292_AA348-409	14	pB6	emb|AL121809.4|CNS01DSK Human chromosome 14 DNA sequence *** IN PROGRESS *** BAC C-3028N15 of library CalTech-D from chromosome 14 of Homo sapiens (Human), complete sequence	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292_AA348-409	14	pB6	emb|AL157419.1|HSM802422 Homo sapiens mRNA; cDNA DKFZp434P031 (from clone DKFZp434P031)	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292_AA348-409	14	pB6	emb|Z97832.11|HS329A5 Human DNA sequence from clone RP3-329A5 on chromosome 6p21.1-21.33 Contains a pseudogene similar to ribosomal protein L35a, ZNF76 (zinc finger protein 76 (expressed in testis)), part of the gene for KIAA06460 protein, an EST, STSs, GSSs and CpG Islands	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292_AA348-409	14	pB6	gb|AC003665.1|AC003665 Homo sapiens chromosome 17, clone hCIT.211_P_7, complete sequence	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292_AA348-409	14	pB6	gb|AC004797.1|AC004797 Homo sapiens chromosome 17, clone hRPC.62_O_9, complete sequence	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292_AA348-409	14	pB6	gb|AC008074.3|AC008074 Homo sapiens clone RP11-568N6, complete sequence	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292_AA348-409	14	pB6	gb|AC009303.3|AC009303 Homo sapiens BAC clone RP11-98C1 from 2, complete sequence	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292_AA348-409	14	pB6	gb|AC073898.1|AC073898 Homo sapiens chromosome 19 BAC BC311202 (CIT-HSPC_419E6), complete sequence	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292_AA348-409	14	pB6	gb|AF064862.1|AF064862 Homo sapiens chromosome 21q22.3 PAC 31P10, complete sequence	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292_AA348-409	14	pB6	gb|AF122819.1|AF122819 Homo sapiens Rb-associated protein mRNA, complete cds	Differentiated PAZ6 RP 1
Human ADRB3 AA227-292_AA348-409	14	pB6	gb|AF246631.1|AF246630S2 Homo sapiens SM-20 (Clorf12) gene, exons 2-5, and complete cds	Differentiated PAZ6 RP 1
Human ADRB3 AA227-	14	pB6	gb|M99390.1|HUMMHCWD Human MHC class I HLA heavy chain	Differentiated PAZ6 RP 1

<table>
<tr><td>292_AA348-409</td><td></td><td></td><td>(HLA-Cw-0303) mRNA, complete cds</td><td></td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_000146.1| Homo sapiens ferritin, light polypeptide (FTL), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_001033.1| Homo sapiens ribonucleotide reductase M1 polypeptide (RRM1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_001101.2| Homo sapiens actin, beta (ACTB), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_001456.1| Homo sapiens filamin A, alpha (actin-binding protein-280) (FLNA), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_002265.1| Homo sapiens karyopherin (importin) beta 1 (KPNB1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_002271.1| Homo sapiens karyopherin (importin) beta 3 (KPNB3), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_002291.1| Homo sapiens laminin, beta 1 (LAMB1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_002710.1| Homo sapiens protein phosphatase 1, catalytic subunit, gamma isoform (PPP1CC), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_002778.1| Homo sapiens prosaposin (variant Gaucher disease and variant metachromatic leukodystrophy) (PSAP), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_003128.1| Homo sapiens spectrin, beta, non-erythrocytic 1 (SPTBN1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_003590.1| Homo sapiens cullin 3 (CUL3), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_003731.1| Homo sapiens Sjogren's syndrome nuclear autoantigen 1 (SSNA1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_004082.1| Homo sapiens dynactin 1 (p150, Glued (Drosophila) homolog) (DCTN1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_004238.1| Homo sapiens thyroid hormone receptor interactor 12 (TRIP12), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_004530.1| Homo sapiens matrix metalloproteinase 2 (gelatinase A, 72kD gelatinase, 72kD type IV collagenase) (MMP2), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_005858.1| Homo sapiens A kinase (PRKA) anchor protein 8 (AKAP8), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_006659.1| Homo sapiens gamma-tubulin complex protein 2 (GCP2), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
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<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_006761.1| Homo sapiens tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide (YWHAE), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_006837.1| Homo sapiens COP9 (constitutive photomorphogenic, Arabidopsis, homolog) subunit 5 (COPS5), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_007110.1| Homo sapiens telomerase-associated protein 1 (TEP1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_007235.2| Homo sapiens exportin, tRNA (nuclear export receptor for tRNAs) (XPOT), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_012437.1| Homo sapiens SNARE associated protein snapin (SNAPAP), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_013438.1| Homo sapiens ubiquilin 1 (UBQLN1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_013444.1| Homo sapiens ubiquilin 2 (UBQLN2), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_014456.1| Homo sapiens programmed cell death 4 (PDCD4), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_014679.1| Homo sapiens KIAA0092 gene product (KIAA0092), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_016039.1| Homo sapiens CGI-99 protein (LOC51637), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_016091.1| Homo sapiens HSPC025 (HSPC025), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_017942.1| Homo sapiens hypothetical protein FLJ20724 (FLJ20724), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_020242.1| Homo sapiens kinesin-like protein 2 (hklp2), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_022064.1| Homo sapiens hypothetical protein FLJ12565 (FLJ12565), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-292_AA348-409</td><td>14</td><td>pB6</td><td>ref|NM_022356.1| Homo sapiens growth suppressor 1 pB6 (GROS1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-409</td><td>15</td><td>pB6</td><td>emb|AL035414.30|HS667H12 Human DNA sequence from clone RP4-667H12 on chromosome 1q32.1-41. Contains up to two novel genes, an ST13 (suppression of tumorigenicity 13 (colon carcinoma) (Hsp70-interacting protein) (HIP)) pseudogene, a ribonuclease H type 2 pseudogene, ESTs, STSs,</td><td>Differentiated PAZ6 RP 1</td></tr>
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Human ADRB3 AA227-409	15	pB6	emb|AL049563.4|HS68D15 Human DNA sequence from clone 68D15 on chromosome Xq22.3-q23, complete sequence [Homo sapiens]	Differentiated PAZ6 RP 1
Human ADRB3 AA227-409	15	pB6	emb|AL136504.2|HS139I22 Homo sapiens chromosome 3 sequence from BAC 139I22 map 3q21 region D3S3607-D3S1587, complete sequence	Differentiated PAZ6 RP 1
Human ADRB3 AA227-409	15	pB6	dbj|AK000867.1|AK000867 Homo sapiens cDNA FLJ10005 fis, clone HEMBA1000156	Differentiated PAZ6 RP 1
Human ADRB3 AA227-409	15	pB6	dbj|AK001725.1|AK001725 Homo sapiens cDNA FLJ10863 fis, clone NT2RP4001575, highly similar to Rattus norvegicus mRNA for ARE1 protein	Differentiated PAZ6 RP 1
Human ADRB3 AA227-409	15	pB6	dbj|AK022041.1|AK022041 Homo sapiens cDNA FLJ11979 fis, clone HEMBB1001282, weakly similar to ANKYRIN R	Differentiated PAZ6 RP 1
Human ADRB3 AA227-409	15	pB6	dbj|AK024287.1|AK024287 Homo sapiens cDNA FLJ14225 fis, clone NT2RP3004051	Differentiated PAZ6 RP 1
Human ADRB3 AA227-409	15	pB6	dbj|AK025520.1|AK025520 Homo sapiens cDNA: FLJ21867 fis, clone HEP02419	Differentiated PAZ6 RP 1
Human ADRB3 AA227-409	15	pB6	dbj|D87742.1|D87742 Human mRNA for KIAA0268 gene, partial cds	Differentiated PAZ6 RP 1
Human ADRB3 AA227-409	15	pB6	emb|AL050294.1|HSM800306 Homo sapiens mRNA; cDNA DKFZp564L2123 (from clone DKFZp564L2123); partial cds	Differentiated PAZ6 RP 1
Human ADRB3 AA227-409	15	pB6	emb|AL132654.15|HSJ450M14 Human DNA sequence from clone RP3-450M14 on chromosome 20 Contains a gene similar to Oryza sativa submergence induced protein 2A, a gene encoding a novel protein similar to KIAA0249 and Yeast SMP2, ESTs and GSSs, complete sequence [Homo sapiens]	Differentiated PAZ6 RP 1
Human ADRB3 AA227-409	15	pB6	gb|AF039023.1|AF039023 Homo sapiens Ran-GTP binding protein mRNA, partial cds	Differentiated PAZ6 RP 1
Human ADRB3 AA227-409	15	pB6	gb|AF161478.1|AF161478 Homo sapiens HSPC129 mRNA, complete cds	Differentiated PAZ6 RP 1
Human ADRB3 AA227-409	15	pB6	gb|AF246631.1|AF246630S2 Homo sapiens SM-20 (C1orf12) gene, exons 2-5, and complete cds	Differentiated PAZ6 RP 1
Human ADRB3 AA227-409	15	pB6	gb|M12126.1|HUMTROPSK Human skeletal muscle beta-tropomyosin mRNA, 3' end	Differentiated PAZ6 RP 1
Human ADRB3 AA227-409	15	pB6	gb|M92439.1|HUM130LEU Human leucine-rich protein mRNA, complete cds	Differentiated PAZ6 RP 1
Human ADRB3 AA227-409	15	pB6	ref|NM_001797.1| Homo sapiens cadherin 11, OB-cadherin	Differentiated PAZ6 RP 1

<table>
<tr><td></td><td></td><td></td><td>(osteoblast) (CDH11), mRNA</td><td></td></tr>
<tr><td>Human ADRB3 AA227-409</td><td>15</td><td>pB6</td><td>ref|NM_001980.1| Homo sapiens epimorphin (EPIM), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-409</td><td>15</td><td>pB6</td><td>ref|NM_002184.1| Homo sapiens interleukin 6 signal transducer (gp130, oncostatin M receptor) (IL6ST), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-409</td><td>15</td><td>pB6</td><td>ref|NM_002185.1| Homo sapiens interleukin 7 receptor (IL7R), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-409</td><td>15</td><td>pB6</td><td>ref|NM_002857.1| Homo sapiens peroxisomal farnesylated protein (PXF), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-409</td><td>15</td><td>pB6</td><td>ref|NM_002857.1| Homo sapiens peroxisomal farnesylated protein (PXF), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-409</td><td>15</td><td>pB6</td><td>ref|NM_003379.2| Homo sapiens villin 2 (ezrin) (VIL2), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-409</td><td>15</td><td>pB6</td><td>ref|NM_003590.1| Homo sapiens cullin 3 (CUL3), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-409</td><td>15</td><td>pB6</td><td>ref|NM_003932.1| Homo sapiens suppression of tumorigenicity 13 (colon carcinoma) (Hsp70-interacting protein) (ST13), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-409</td><td>15</td><td>pB6</td><td>ref|NM_004176.1| Homo sapiens sterol regulatory element binding transcription factor 1 (SREBF1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-409</td><td>15</td><td>pB6</td><td>ref|NM_004331.1| Homo sapiens BCL2/adenovirus E1B 19kD-interacting protein 3-like (BNIP3L), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-409</td><td>15</td><td>pB6</td><td>ref|NM_004381.1| Homo sapiens cAMP responsive element binding protein-like 1 (CREBL1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-409</td><td>15</td><td>pB6</td><td>ref|NM_004593.1| Homo sapiens splicing factor, arginine/serine-rich (transformer 2 Drosophila homolog) 10 (SFRS10), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-409</td><td>15</td><td>pB6</td><td>ref|NM_004599.1| Homo sapiens sterol regulatory element binding transcription factor 2 (SREBF2), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-409</td><td>15</td><td>pB6</td><td>ref|NM_004910.1| Homo sapiens phosphatidylinositol transfer protein, membrane-associated (PITPNM), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-409</td><td>15</td><td>pB6</td><td>ref|NM_006913.1| Homo sapiens ring finger protein 5 (RNF5), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-409</td><td>15</td><td>pB6</td><td>ref|NM_007124.1| Homo sapiens utrophin (homologous to dystrophin) (UTRN), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-409</td><td>15</td><td>pB6</td><td>ref|NM_012090.1| Homo sapiens actin binding protein; macrophin (microfilament and actin filament cross-linker protein) (ACF7), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human ADRB3 AA227-409</td><td>15</td><td>pB6</td><td>ref|NM_012437.1| Homo sapiens SNARE associated protein</td><td>Differentiated PAZ6 RP 1</td></tr>
</table>

			snapin (SNAPAP), mRNA	
Human ADRB3 AA227-409	15	pB6	ref|NM_013444.1| Homo sapiens ubiquilin 2 (UBQLN2), mRNA	Differentiated PAZ6 RP 1
Human ADRB3 AA227-409	15	pB6	ref|NM_014287.2| Homo sapiens pM5 protein (PM5), mRNA	Differentiated PAZ6 RP 1
Human ADRB3 AA227-409	15	pB6	ref|NM_014679.1| Homo sapiens KIAA0092 gene product (KIAA0092), mRNA	Differentiated PAZ6 RP 1
Human ADRB3 AA227-409	15	pB6	ref|NM_014774.1| Homo sapiens KIAA0494 gene product (KIAA0494), mRNA	Differentiated PAZ6 RP 1
Human ADRB3 AA227-409	15	pB6	ref|NM_015720.1| Homo sapiens endoglycan (PODLX2), mRNA	Differentiated PAZ6 RP 1
Human ADRB3 AA227-409	15	pB6	ref|NM_015899.1| Homo sapiens putative glycolipid transfer protein (LOC51054), mRNA	Differentiated PAZ6 RP 1
Human ADRB3 AA227-409	15	pB6	ref|NM_016441.1| Homo sapiens cysteine-rich repeat-containing protein S52 precursor, (LOC51232), mRNA	Differentiated PAZ6 RP 1
Human ADRB3 AA227-409	15	pB6	ref|NM_020414.1| Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 24 (DDX24), mRNA	Differentiated PAZ6 RP 1
Human ADRB3 AA227-409	15	pB6	ref|NM_021832.1| Homo sapiens a disintegrin and metalloproteinase domain 17 (tumor necrosis factor, alpha, converting enzyme) (ADAM17), transcript variant 2, mRNA	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	gb|AC026273.7|AC026273 Homo sapiens clone CTD-2314M3, complete sequence	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	gb|AC009533.9|AC009533 Homo sapiens 12p12-21.3-21.8 BAC RP11-22B23 (Roswell Park Cancer Institute Human BAC Library) complete sequence	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	ref|NM_014865.1| Homo sapiens chromosome condensation-related SMC-associated protein 1 (KIAA0159), mRNA	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	ref|NM_019002.1| Homo sapiens ETAA16 protein (ETAA16), mRNA	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	emb|AL132875.22|HSDJ92C4 Human DNA sequence from clone RP1-92C4 on chromosome 6q14.1-15, complete sequence [Homo sapiens]	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	dbj|AK026969.1|AK026969 Homo sapiens cDNA: FLJ23316 fis, clone HEP12031	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	gb|AC005575.1|AC005575 Homo sapiens chromosome 5, BAC clone 246j10 (LBNL H186), complete sequence	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	gb|AC007041.3|AC007041 Homo sapiens BAC clone RP11-327N17 from 2, complete sequence	Differentiated PAZ6 RP 1

<table>
<tr><td>Human OBR-GRP AA51-71</td><td>16</td><td>pB6</td><td>gb|AC002040.1|HUAC002040 Homo sapiens Chromosome 16 BAC clone CIT987-SK142A6 complete genomic sequence, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-71</td><td>16</td><td>pB6</td><td>ref|NM_022064.1| Homo sapiens hypothetical protein FLJ12565 (FLJ12565), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-71</td><td>16</td><td>pB6</td><td>ref|NM_001257.1| Homo sapiens cadherin 13, H-cadherin (heart) (CDH13), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-71</td><td>16</td><td>pB6</td><td>ref|NM_000962.1| Homo sapiens prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase) (PTGS1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-71</td><td>16</td><td>pB6</td><td>ref|NM_019081.1| Homo sapiens KIAA0430 gene product (KIAA0430), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-71</td><td>16</td><td>pB6</td><td>ref|NM_001610.1| Homo sapiens acid phosphatase 2, lysosomal (ACP2), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-71</td><td>16</td><td>pB6</td><td>ref|NM_002114.1| Homo sapiens human immunodeficiency virus type I enhancer-binding protein 1 (HIVEP1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-71</td><td>16</td><td>pB6</td><td>ref|NM_003932.1| Homo sapiens suppression of tumorigenicity 13 (colon carcinoma) (Hsp70-interacting protein) (ST13), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-71</td><td>16</td><td>pB6</td><td>ref|NM_004508.1| Homo sapiens isopentenyl-diphosphate delta isomerase (IDI1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-71</td><td>16</td><td>pB6</td><td>ref|NM_012437.1| Homo sapiens SNARE associated protein snapin (SNAPAP), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-71</td><td>16</td><td>pB6</td><td>ref|NM_005128.1| Homo sapiens chromosome 21 open reading frame 5 (C21ORF5), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-71</td><td>16</td><td>pB6</td><td>ref|NM_017451.1| Homo sapiens BAI1-associated protein 2 (BAIAP2), transcript variant 2, mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-71</td><td>16</td><td>pB6</td><td>ref|NM_014679.1| Homo sapiens KIAA0092 gene product (KIAA0092), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-71</td><td>16</td><td>pB6</td><td>ref|NM_001758.1| Homo sapiens cyclin D1 (PRAD1: parathyroid adenomatosis 1) (CCND1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-71</td><td>16</td><td>pB6</td><td>ref|NM_013366.2| Homo sapiens anaphase-promoting complex 2 (APC2), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-71</td><td>16</td><td>pB6</td><td>emb|AL033392.5|HS403M6 Human DNA sequence from clone 403M6 on chromosome 6q24.1-25.2. Contains two unconnected exons of the gene for Myasthenia Gravis autoantigen Gravin, and ESTs, STSs and GSSs, complete</td><td>Differentiated PAZ6 RP 1</td></tr>
</table>

			sequence [Homo sapiens]	
Human OBR-GRP AA51-71	16	pB6	ref|NM_005703.2| Homo sapiens upstream regulatory element binding protein 1 (UREB1), mRNA	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	ref|NM_000156.3| Homo sapiens guanidinoacetate N-methyltransferase (GAMT), mRNA	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	ref|NM_014639.1| Homo sapiens KIAA0372 gene product (KIAA0372), mRNA	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	emb|AL110178.1|HSM800825 Homo sapiens mRNA; cDNA DKFZp564K1062 (from clone DKFZp564K1062)	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	ref|NM_020300.1| Homo sapiens microsomal glutathione S-transferase 1 (MGST1), mRNA	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	ref|NM_005027.1| Homo sapiens phosphoinositide-3-kinase, regulatory subunit, polypeptide 2 (p85 beta) (PIK3R2), mRNA	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	gb|AF153836.1|AF153832S5 Homo sapiens human immunodeficiency virus type I enhancer-binding protein 2 (HIVEP2) gene, exons 3, 3b, 4, 5, 6, 7, 8, 9, 10, and complete cds	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	ref|NM_003968.1| Homo sapiens ubiquitin-activating enzyme E1C (homologous to yeast UBA3) (UBE1C), mRNA	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	ref|NM_013241.1| Homo sapiens FH1/FH2 domain-containing protein (FHOS), mRNA	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	ref|NM_012316.1| Homo sapiens karyopherin alpha 6 (importin alpha 7) (KPNA6), mRNA	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	gb|AC005236.4|AC005236 Homo sapiens BAC clone RP11-479C13 from 7, complete sequence	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	ref|NM_006904.3| Homo sapiens protein kinase, DNA-activated, catalytic polypeptide (PRKDC), mRNA	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	ref|NM_000962.1| Homo sapiens prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase) (PTGS1), mRNA	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	gb|AC003110.1|AC003110 Human DNA from chromosome 19-specific cosmid F14150, genomic sequence, complete sequence [Homo sapiens]	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	ref|NM_001456.1| Homo sapiens filamin A, alpha (actin-	Differentiated PAZ6 RP 1

			binding protein-280) (FLNA), mRNA	
Human OBR-GRP AA51-71	16	pB6	ref|NM_005245.1| Homo sapiens FAT tumor suppressor (Drosophila) homolog (FAT), mRNA	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	ref|NM_018206.1| Homo sapiens vacuolar protein sorting 35 (yeast homolog) (VPS35), mRNA	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	ref|NM_002161.2| Homo sapiens isoleucine-tRNA synthetase (IARS), transcript variant short, mRNA	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	ref|NM_002589.1| Homo sapiens BH-protocadherin (brain-heart) (PCDH7), mRNA	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	ref|NM_013109.1| Rattus norvegicus Orthodenticle (Drosophila) homolog 1 (Otx1), mRNA	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	dbj|AB028956.1|AB028956 Homo sapiens mRNA for KIAA1033 protein, partial cds	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	ref|NM_000214.1| Homo sapiens jagged 1 (Alagille syndrome) (JAG1), mRNA	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	gb|M61906.1|HUMP13KIN Human P13-kinase associated p85 mRNA sequence	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	ref|NM_003130.1| Homo sapiens sorcin (SRI), mRNA	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	dbj|AB028956.1|AB028956 Homo sapiens mRNA for KIAA1033 protein, partial cds	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	emb|AL050092.1|HSM800161 Homo sapiens mRNA; cDNA DKFZp586G0518 (from clone DKFZp586G0518); partial cds	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	gb|AC002367.1|AC002367 Homo sapiens Xp22 PAC RPCI1-22N22 (Research Park PAC library) complete sequence	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	gb|AF153836.1|AF153832S5 Homo sapiens human immunodeficiency virus type I enhancer-binding protein 2 (HIVEP2) gene, exons 3, 3b, 4, 5, 6, 7, 8, 9, 10, and complete cds	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	ref|NM_020242.1| Homo sapiens kinesin-like protein 2 (hklp2), mRNA	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	ref|NM_015897.1| Homo sapiens protein inhibitor of activated STAT protein PIASy (PIASY), mRNA	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	gb|AF046024.1|AF046024 Homo sapiens UBA3 (UBA3) mRNA, complete cds	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-71	16	pB6	ref|NM_004606.1| Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, A, 250kD (TAF2A), mRNA	Differentiated PAZ6 RP 1

Human OBR-GRP AA51-132	17	pB6	emb|AL031277.1|HS1177E19 Human DNA sequence from clone 1177E19 on chromosome 1p36.12-36.31. Contains the 3' part of the DNA-binding Zinc finger protein RIZ gene, ESTs, an STS, GSSs and a CpG island, complete sequence [Homo sapiens]	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-132	17	pB6	emb|AL031781.1|HS51J12 Human DNA sequence from clone 51J12 on chromosome 6q26-27. Contains the 3' part of the alternatively spliced gene for the human orthologs of mouse QKI-7 and QKI-7B (KH Domain RNA Binding proteins) and zebrafish ZKQ-1 (Quaking protein homolog). Contains	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-132	17	pB6	emb|AL132875.22|HSDJ92C4 Human DNA sequence from clone RP1-92C4 on chromosome 6q14.1-15, complete sequence [Homo sapiens]	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-132	17	pB6	emb|AL133480.9|AL133480 Human DNA sequence from clone RP11-307L3 on chromosome 9p23-24.3, complete sequence [Homo sapiens]	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-132	17	pB6	emb|AL137012.6|AL137012 Human DNA sequence from clone RP1-80G16 on chromosome 6. Contains a 60S ribosomal protein L21 (RPL21) pseudogene, ESTs, STSs, GSSs and a CpG island, complete sequence [Homo sapiens]	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-132	17	pB6	emb|AL137012.6|AL137012 Human DNA sequence from clone RP1-80G16 on chromosome 6. Contains a 60S ribosomal protein L21 (RPL21) pseudogene, ESTs, STSs, GSSs and a CpG island, complete sequence [Homo sapiens]	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-132	17	pB6	emb|Z83822.1|HS306D1 Human DNA sequence from PAC 306D1 on chromosome X contains ESTs	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-132	17	pB6	gb|AC004554.1|AC004554 Homo sapiens Xp22 BAC GSHB-590J6 (Genome Systems Human BAC library) complete sequence	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-132	17	pB6	gb|AC004770.1|AC004770 Homo sapiens chromosome 11, BAC CIT-HSP-311e8 (BC269730) containing the hFEN1 gene, complete sequence	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-132	17	pB6	gb|AC006450.13|AC006450 Homo sapiens chromosome 9, clone RP11-85O21, complete sequence	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-132	17	pB6	gb|AC007999.11|AC007999 Homo sapiens 3q25-26 BAC CTB-177N7 (California Institute of Technology BAC Library) complete sequence	Differentiated PAZ6 RP 1
Human OBR-GRP AA51-132	17	pB6	gb|AC009312.4|AC009312 Homo sapiens BAC clone RP11-425F6	Differentiated PAZ6 RP 1

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<tr><td></td><td></td><td></td><td>from 2, complete sequence</td><td></td></tr>
<tr><td>Human OBR-GRP AA51-132</td><td>17</td><td>pB6</td><td>gb|U89336.1|HSMHC3W5A Homo sapiens HLA class III region containing NOTCH4 gene, partial sequence, homeobox PBX2 (HPBX) gene, receptor for advanced glycosylation end products (RAGE) gene, complete cds, and 6 unidentified cds, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-132</td><td>17</td><td>pB6</td><td>ref|NM_000516.2| Homo sapiens guanine nucleotide binding protein (G protein), alpha stimulating activity polypeptide 1 (GNAS1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-132</td><td>17</td><td>pB6</td><td>dbj|AB011121.1|AB011121 Homo sapiens mRNA for KIAA0549 protein, partial cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-132</td><td>17</td><td>pB6</td><td>dbj|AB037856.1|AB037856 Homo sapiens mRNA for KIAA1435 protein, partial cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-132</td><td>17</td><td>pB6</td><td>dbj|AK000867.1|AK000867 Homo sapiens cDNA FLJ10005 fis, clone HEMBA1000156</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-132</td><td>17</td><td>pB6</td><td>dbj|AK025242.1|AK025242 Homo sapiens cDNA: FLJ21589 fis, clone COL06960</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-132</td><td>17</td><td>pB6</td><td>emb|AL109865.36|HSG120K12 Human DNA sequence from clone GS1-120K12 on chromosome 1q25.3-31.2. Contains the gene for ring finger protein DING or BAP-1, an FTH1 (ferritin, heavy polypeptide 1) pseudogene, the 3' end of the gene for a novel protein similar to archaeal, yeast and w</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-132</td><td>17</td><td>pB6</td><td>emb|AL356121.13|AL356121 Human DNA sequence from clone RP11-72I2 on chromosome 6, complete sequence [Homo sapiens]</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-132</td><td>17</td><td>pB6</td><td>emb|AL356121.13|AL356121 Human DNA sequence from clone RP11-72I2 on chromosome 6, complete sequence [Homo sapiens]</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-132</td><td>17</td><td>pB6</td><td>gb|AC004802.1|AC004802 Homo sapiens 12p13.3 RPCI4-773N5 (Roswell Park Cancer Institute Human PAC library) complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-132</td><td>17</td><td>pB6</td><td>gb|AF062344.1|AF062344 Homo sapiens p120 catenin isoform 4B (CTNND1) mRNA, alternatively spliced, complete cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-132</td><td>17</td><td>pB6</td><td>ref|NM_001386.1| Homo sapiens dihydropyrimidinase-like 2 (DPYSL2), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
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<tr><td>Human OBR-GRP AA51-132</td><td>17</td><td>pB6</td><td>ref|NM_002734.1| Homo sapiens protein kinase, cAMP-dependent, regulatory, type I, alpha (tissue specific extinguisher 1) (PRKAR1A), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-132</td><td>17</td><td>pB6</td><td>ref|NM_002743.1| Homo sapiens protein kinase C substrate 80K-H (PRKCSH), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-132</td><td>17</td><td>pB6</td><td>ref|NM_004041.2| Homo sapiens arrestin, beta 1 (ARRB1), transcript variant 1, mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-132</td><td>17</td><td>pB6</td><td>ref|NM_004599.1| Homo sapiens sterol regulatory element binding transcription factor 2 (SREBF2), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-132</td><td>17</td><td>pB6</td><td>ref|NM_006403.1| Homo sapiens enhancer of filamentation 1 (cas-like docking; Crk-associated substrate related) (HEF1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-132</td><td>17</td><td>pB6</td><td>ref|NM_013432.1| Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor-like 2 (NFKBIL2), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-132</td><td>17</td><td>pB6</td><td>ref|NM_013438.1| Homo sapiens ubiquilin 1 (UBQLN1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human OBR-GRP AA51-132</td><td>17</td><td>pB6</td><td>ref|NM_016598.1| Homo sapiens DHHC1 protein (LOC51304), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human MEL1AR AA120-351</td><td>18</td><td>pB6</td><td>emb|Z70227.1|HSV362H12 Human DNA sequence from cosmid V362H12, between markers DXS366 and DXS87 on chromosome X *</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human MEL1AR AA120-351</td><td>18</td><td>pB6</td><td>gb|AC002119.1|AC002119 Homo sapiens chromosome 17, clone 347 H 5, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human MEL1AR AA120-351</td><td>18</td><td>pB6</td><td>gb|AF038183.1|AF038183 Homo sapiens clone 23674 mRNA sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human MEL1AR AA120-351</td><td>18</td><td>pB6</td><td>ref|NM_006837.1| Homo sapiens COP9 (constitutive photomorphogenic, Arabidopsis, homolog) subunit 5 (COPS5), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human MEL1AR AA120-351</td><td>18</td><td>pB6</td><td>gb|AC009303.3|AC009303 Homo sapiens BAC clone RP11-98C1 from 2, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human MEL1AR AA120-351</td><td>18</td><td>pB6</td><td>ref|NM_004599.1| Homo sapiens sterol regulatory element binding transcription factor 2 (SREBF2), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human MEL1AR AA120-351</td><td>18</td><td>pB6</td><td>ref|NM_022064.1| Homo sapiens hypothetical protein FLJ12565 (FLJ12565), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human MEL1AR AA120-351</td><td>18</td><td>pB6</td><td>gb|AC026273.7|AC026273 Homo sapiens clone CTD-2314M3, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
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<tr><td>Human MEL1AR AA120-351</td><td>18</td><td>pB6</td><td>ref|NM_003932.1| Homo sapiens suppression of tumorigenicity 13 (colon carcinoma) (Hsp70-interacting protein) (ST13), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human MEL1AR AA120-351</td><td>18</td><td>pB6</td><td>gb|AC005517.6|AC005517 Homo sapiens chromosome 17, clone RP11-726O12, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human MEL1AR AA120-351</td><td>18</td><td>pB6</td><td>emb|Z99943.1|HS313L4 Human DNA sequence from PAC 313L4 on chromosome 1q24. Contains ESTs</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human MEL1BR AA133-363</td><td>19</td><td>pB6</td><td>emb|AL096857.1|HS598F21A Novel human mRNA from chromosome 1, which has similarities to BAT2 genes</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human MEL1BR AA133-363</td><td>19</td><td>pB6</td><td>emb|Z63135.1|HS78H9F H.sapiens CpG island DNA genomic Mse1 fragment, clone 78h9, forward read cpg78h9.ft1a</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human MEL1BR AA133-363</td><td>19</td><td>pB6</td><td>emb|Z63135.1|HS78H9F H.sapiens CpG island DNA genomic Mse1 fragment, clone 78h9, forward read cpg78h9.ft1a</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human MEL1BR AA133-363</td><td>19</td><td>pB6</td><td>emb|Z81316.1|HSF62D4A Human DNA sequence from fosmid F62D4 on chromosome 22, complete sequence [Homo sapiens]</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human MEL1BR AA133-363</td><td>19</td><td>pB6</td><td>gb|AC002073.1|AC002073 Human PAC clone RP3-515N1 from 22q11.2-q22, complete sequence [Homo sapiens]</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human MEL1BR AA133-363</td><td>19</td><td>pB6</td><td>dbj|AB011169.1|AB011169 Homo sapiens mRNA for KIAA0597 protein, partial cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human MEL1BR AA133-363</td><td>19</td><td>pB6</td><td>dbj|AB018253.1|AB018253 Rattus norvegicus mRNA for voltage-gated ca channel, complete cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human MEL1BR AA133-363</td><td>19</td><td>pB6</td><td>dbj|D87742.1|D87742 Human mRNA for KIAA0268 gene, partial cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human MEL1BR AA133-363</td><td>19</td><td>pB6</td><td>emb|AL360136.1|IR2176457 Homo sapiens mRNA full length insert cDNA clone EUROIMAGE 2176457</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human MEL1BR AA133-363</td><td>19</td><td>pB6</td><td>emb|Z63135.1|HS78H9F H.sapiens CpG island DNA genomic Mse1 fragment, clone 78h9, forward read cpg78h9.ft1a</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human MEL1BR AA133-363</td><td>19</td><td>pB6</td><td>gb|AC002403.1|AC002403 Human Chromosome 11p15.5 pac pDJ608b4, complete sequence [Homo sapiens]</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human MEL1BR AA133-363</td><td>19</td><td>pB6</td><td>gb|AF177337.1|AF177337 Homo sapiens clone SP24 unknown mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human MEL1BR AA133-363</td><td>19</td><td>pB6</td><td>ref|NM_002342.1| Homo sapiens lymphotoxin beta receptor (TNFR superfamily, member 3 (LTBR), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human MEL1BR AA133-363</td><td>19</td><td>pB6</td><td>ref|NM_003615.1| Homo sapiens solute carrier family 4, sodium bicarbonate cotransporter, member 7 (SLC4A7), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
</table>

Human MEL1BR AA133-363	19	pB6	ref|NM_004036.2| Homo sapiens adenylate cyclase 3 (ADCY3), mRNA	Differentiated PAZ6 RP 1
Human MEL1BR AA133-363	19	pB6	ref|NM_004381.1| Homo sapiens cAMP responsive element binding protein-like 1 (CREBL1), mRNA	Differentiated PAZ6 RP 1
Human MEL1BR AA133-363	19	pB6	ref|NM_004599.1| Homo sapiens sterol regulatory element binding transcription factor 2 (SREBF2), mRNA	Differentiated PAZ6 RP 1
Human MEL1BR AA133-363	19	pB6	ref|NM_005072.1| Homo sapiens solute carrier family 12 (potassium/chloride transporters), member 4 (SLC12A4), mRNA	Differentiated PAZ6 RP 1
Human MEL1BR AA133-363	19	pB6	ref|NM_005080.1| Homo sapiens X-box binding protein 1 (XBP1), mRNA	Differentiated PAZ6 RP 1
Human MEL1BR AA133-363	19	pB6	ref|NM_006904.3| Homo sapiens protein kinase, DNA-activated, catalytic polypeptide (PRKDC), mRNA	Differentiated PAZ6 RP 1
Human MEL1BR AA133-363	19	pB6	ref|NM_012319.1| Homo sapiens LIV-1 protein, estrogen regulated (LIV-1), mRNA	Differentiated PAZ6 RP 1
Human MEL1BR AA133-363	19	pB6	ref|NM_015513.1| Homo sapiens DKFZP566D213 protein (DKFZP566D213), mRNA	Differentiated PAZ6 RP 1
Human MEL1BR AA133-363	19	pB6	ref|NM_020414.1| Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 24 (DDX24), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	gb|AC005611.1|AC005611 Homo sapiens chromosome 5, BAC clone 259m9 (LBNL H193), complete sequence	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	gb|AC015968.4|AC015968 Homo sapiens BAC clone RP11-133L20 from 7, complete sequence	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	gb|AC036103.8|AC036103 Homo sapiens chromosome 15 clone CTD-2610G5 map 15q15, complete sequence	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	gb|AC083870.2|AC083870 Homo sapiens chromosome 7 clone RP11-248K17, complete sequence	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	gb|AF232229.1|AF232229 Homo sapiens imprinted and ancient (IMPACT) gene, complete cds	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	gb|U23862.1|HSU23862 Human clone mcag32 chromosome 7 CTG repeat region	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	dbj|AK001812.1|AK001812 Homo sapiens cDNA FLJ10950 fis, clone PLACE1000185	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	dbj|AK002174.1|AK002174 Homo sapiens cDNA FLJ11312 fis, clone PLACE1010105, weakly similar to RING CANAL PROTEIN	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	emb|AL117608.1|HSM801143 Homo sapiens mRNA; cDNA DKFZp56401863 (from clone DKFZp56401863); partial cds	Differentiated PAZ6 RP 1

Human SOCS3 AA1-226	20	pB6	emb|AL121656.2|CNS01DS6 BAC sequence from the SPG4 candidate region at 2p21-2p22 BAC 367K01 of CITB_978_SKB library from chromosome 2 of Homo sapiens (Human), complete sequence	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	emb|AL157419.1|HSM802422 Homo sapiens mRNA; cDNA DKFZp434P031 (from clone DKFZp434P031)	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	emb|AL445187.7|AL445187 Human DNA sequence from clone RP11-576C12 on chromosome 9, complete sequence [Homo sapiens]	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	emb|X89399.1|HSINSP4BP Homo sapiens mRNA for Ins(1,3,4,5)P4-binding protein	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	gb|AC005611.1|AC005611 Homo sapiens chromosome 5, BAC clone 259m9 (LBNL H193), complete sequence	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	gb|AC009086.5|AC009086 Homo sapiens chromosome 16 clone RP11-368N21, complete sequence	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	gb|AF000974.1|HSAF000974 Human zyxin related protein ZRP-1 mRNA, complete cds	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	gb|AF123303.1|AF123303 Homo sapiens calcium-binding transporter mRNA, partial cds	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	gb|AF206329.1|AF206329 Mus musculus polydom protein mRNA, complete cds	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	gb|AF217197.1|AF217197 Homo sapiens FBP interacting repressor (FIR) mRNA, complete cds	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	gb|J03866.1|HUMIGMBC Homo sapiens M2 mitochondrial autoantigen dihydrolipoamide acetyltransferase mRNA, complete cds	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	gb|M24033.1|HUMMHCBWB Human MHC class I HLA-Bw46 mRNA (A2.4a; Bw46; Cw11), complete cds	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_000089.1| Homo sapiens collagen, type I, alpha 2 (COL1A2), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_000090.1| Homo sapiens collagen, type III, alpha 1 (Ehlers-Danlos syndrome type IV, autosomal dominant) (COL3A1), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_000179.1| Homo sapiens mutS (E. coli) homolog 6 (MSH6), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_000396.1| Homo sapiens cathepsin K (pycnodysostosis) (CTSK), mRNA	Differentiated PAZ6 RP 1

Human SOCS3 AA1-226	20	pB6	ref|NM_000445.1| Homo sapiens plectin 1, intermediate filament binding protein, 500kD (PLEC1), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_000919.1| Homo sapiens peptidylglycine alpha-amidating monooxygenase (PAM), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_000963.1| Homo sapiens prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase) (PTGS2), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_001033.1| Homo sapiens ribonucleotide reductase M1 polypeptide (RRM1), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_001101.2| Homo sapiens actin, beta (ACTB), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_001257.1| Homo sapiens cadherin 13, H-cadherin (heart) (CDH13), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_001282.1| Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_001456.1| Homo sapiens filamin A, alpha (actin-binding protein-280) (FLNA), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_001457.1| Homo sapiens filamin B, beta (actin-binding protein-278) (FLNB), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_001613.1| Homo sapiens actin, alpha 2, smooth muscle, aorta (ACTA2), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_001897.1| Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_001933.1| Homo sapiens dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex) (DLST), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_002636.1| Homo sapiens PHD finger protein 1 (PHF1), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_002660.1| Homo sapiens phospholipase C, gamma 1 (formerly subtype 148) (PLCG1), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_002778.1| Homo sapiens prosaposin (variant Gaucher disease and variant metachromatic leukodystrophy) (PSAP), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_003074.1| Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 1 (SMARCC1), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_003906.1| Homo sapiens minichromosome maintenance deficient (S. cerevisiae) 3-associated protein	Differentiated PAZ6 RP 1

			(MCM3AP), mRNA	
Human SOCS3 AA1-226	20	pB6	ref/NM_003922.1/ Homo sapiens hect (homologous to the E6-AP (UBE3A) carboxyl terminus) domain and RCC1 (CHC1)-like domain (RLD) 1 (HERC1), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref/NM_004208.1/ Homo sapiens programmed cell death 8 (apoptosis-inducing factor) (PDCD8), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref/NM_004369.1/ Homo sapiens collagen, type VI, alpha 3 (COL6A3), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref/NM_004370.3/ Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref/NM_004526.1/ Homo sapiens minichromosome maintenance deficient (S. cerevisiae) 2 (mitotin) (MCM2), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref/NM_004628.1/ Homo sapiens xeroderma pigmentosum, complementation group C (XPC), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref/NM_004766.1/ Homo sapiens coatomer protein complex, subunit beta 2 (beta prime) (COPB2), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref/NM_004799.1/ Homo sapiens MAD (mothers against decapentaplegic, Drosophila) homolog interacting protein, receptor activation anchor (MADHIP), transcript variant 3, mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref/NM_005115.2/ Homo sapiens major vault protein (MVP), transcript variant 2, mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref/NM_005607.1/ Homo sapiens PTK2 protein tyrosine kinase 2 (PTK2), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref/NM_005953.1/ Homo sapiens metallothionein 2A (MT2A), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref/NM_006311.1/ Homo sapiens nuclear receptor co-repressor 1 (NCOR1), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref/NM_006341.2/ Homo sapiens MAD2 (mitotic arrest deficient, yeast, homolog)-like 2 (MAD2L2), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref/NM_006837.1/ Homo sapiens COP9 (constitutive photomorphogenic, Arabidopsis, homolog) subunit 5 (COPS5), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref/NM_007111.1/ Homo sapiens transcription factor Dp-1 (TFDP1), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref/NM_007361.1/ Homo sapiens nidogen 2 (NID2), mRNA	Differentiated PAZ6 RP 1

Human SOCS3 AA1-226	20	pB6	ref|NM_012210.1| Homo sapiens TAT-INTERACTIVE PROTEIN, 72-KD (HT2A), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_013438.1| Homo sapiens ubiquilin 1 (UBQLN1), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_013444.1| Homo sapiens ubiquilin 2 (UBQLN2), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_014015.1| Homo sapiens MYLE protein (MYLE), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_014761.1| Homo sapiens KIAA0174 gene product (KIAA0174), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_015584.1| Homo sapiens DKFZP586F1524 protein (DKFZP586F1524), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_017567.1| Homo sapiens N-Acetylglucosamine kinase (HSA242910), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_017751.1| Homo sapiens hypothetical protein FLJ20297 (FLJ20297), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_017769.1| Homo sapiens hypothetical protein FLJ20333 (FLJ20333), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_017815.1| Homo sapiens hypothetical protein FLJ20424 (FLJ20424), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_018206.1| Homo sapiens vacuolar protein sorting 35 (yeast homolog) (VPS35), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_021138.1| Homo sapiens TNF receptor-associated factor 2 (TRAF2), mRNA	Differentiated PAZ6 RP 1
Human SOCS3 AA1-226	20	pB6	ref|NM_021633.1| Homo sapiens kelch-like protein C3IP1 (C3IP1), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA130-382	21	pB5	dbj|AP001760.1|AP001760 Homo sapiens genomic DNA, chromosome 21q, section 104/105	Differentiated PAZ6 RP 1
Human GIT1 AA130-382	21	pB5	emb|AJ239321.3|HS133G21 Homo sapiens chromosome 21 sequence from PAC RPCI-1 133G21 map 21q11.1 region D21S190, complete sequence	Differentiated PAZ6 RP 1
Human GIT1 AA130-382	21	pB5	emb|AL132795.12|HSDJ412I7 Human DNA sequence from clone RP3-412I7 on chromosome 6q22.1-22.33 Contains part of a gene similar to radial spokehead protein, the KPNA5 (karyopherin alpha 5 (importin alpha 6)) gene, ESTs, STSs and GSSs, complete sequence [Homo sapiens]	Differentiated PAZ6 RP 1
Human GIT1 AA130-382	21	pB5	emb|AL136295.2|CNS01DVZ Human chromosome 14 DNA sequence *** IN PROGRESS *** BAC R-468E2 of library RPCI-11 from chromosome 14 of Homo sapiens (Human), complete sequence	Differentiated PAZ6 RP 1

<table>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>gb|AC003091.1|AC003091 Human BAC clone CTA-326G4 from 7p21, complete sequence [Homo sapiens]</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>gb|AC005488.2|AC005488 Homo sapiens clone NH0313P13, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>gb|AC006145.2|AC006145 Homo sapiens PAC clone RP4-560014 from 7q21.1-q21.2, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>gb|AC007707.13|AC007707 Homo sapiens chromosome 11 clone 442e11 from RPCI11 Library map 11q23, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>gb|AC008649.6|AC008649 Homo sapiens chromosome 19 clone CTB-186G2, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>gb|AC008928.6|AC008928 Homo sapiens chromosome 5 clone CTD-2288H1, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>gb|AC009116.7|AC009116 Homo sapiens chromosome 16 clone RP11-477D3, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>gb|AF130049.1|AF130049 Homo sapiens clone FLB3411 PRO0852 mRNA, complete cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>dbj|AB011126.1|AB011126 Homo sapiens mRNA for KIAA0554 protein, partial cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>dbj|AB018271.1|AB018271 Homo sapiens mRNA for KIAA0728 protein, partial cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>dbj|AB023216.1|AB023216 Homo sapiens mRNA for KIAA0999 protein, partial cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>dbj|AB032251.1|AB032251 Homo sapiens BPTF mRNA for bromodomain PHD finger transcription factor, complete cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>dbj|AB037721.1|AB037721 Homo sapiens mRNA for KIAA1300 protein, partial cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>dbj|AB037766.1|AB037766 Homo sapiens mRNA for KIAA1345 protein, partial cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>dbj|AB037850.1|AB037850 Homo sapiens mRNA for KIAA1429 protein, partial cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>dbj|AB040931.1|AB040931 Homo sapiens mRNA for KIAA1498 protein, partial cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>dbj|AK022874.1|AK022874 Homo sapiens cDNA FLJ12812 fis, clone NT2RP2002498</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>dbj|D55716.1|HUMP1CDC47 Human mRNA for P1cdc47, complete cds</td><td>Differentiated PAZ6 RP 1</td></tr>
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<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>emb|AJ242979.1|HSA242979 Homo sapiens partial mRNA for KIAA0461/245 protein</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>emb|AL110218.1|HSM800872 Homo sapiens mRNA; cDNA DKFZp434A163 (from clone DKFZp434A163); partial cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>emb|AL359561.1|HSM802659 Homo sapiens mRNA; cDNA DKFZp762N2316 (from clone DKFZp762N2316)</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>gb|AC005757.1|AC005757 Homo sapiens chromosome 19, cosmid R32611, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>gb|AC008736.6|AC008736 Homo sapiens chromosome 19 clone CTD-2538C1, complete sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>gb|AF030558.1|AF030558 Rattus norvegicus phosphatidylinositol 5-phosphate 4-kinase gamma mRNA, complete cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>gb|AF062343.1|AF062343 Homo sapiens p120 catenin isoform 1A (CTNND1) mRNA, alternatively spliced, complete cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>gb|AF091622.1|AF091622 Homo sapiens PHD finger protein 3 (PHF3) mRNA, complete cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>gb|AF109907.1|DJ534K4 Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>gb|AF116710.1|AF116710 Homo sapiens PRO2640 mRNA, complete cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>gb|AF121856.1|AF121856 Homo sapiens sorting nexin 6 (SNX6) mRNA, complete cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>gb|AF122819.1|AF122819 Homo sapiens Rb-associated protein mRNA, complete cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>gb|AF180681.1|AF180681 Homo sapiens guanine nucleotide exchange factor (LARG) mRNA, complete cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>gb|AF305081.1|AF305081 Homo sapiens tankyrase-related protein mRNA, partial cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>gb|J03866.1|HUMIGMBC Homo sapiens M2 mitochondrial autoantigen dihydrolipoamide acetyltransferase mRNA, complete cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>gb|U93181.1|HSU93181 Homo sapiens nuclear dual-specificity phosphatase (SBF1) mRNA, partial cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_000274.1| Homo sapiens ornithine aminotransferase (gyrate atrophy) (OAT), nuclear gene encoding</td><td>Differentiated PAZ6 RP 1</td></tr>
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<tr><td></td><td></td><td></td><td>mitochondrial protein, mRNA</td><td></td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_000310.1| Homo sapiens palmitoyl-protein thioesterase 1 (ceroid-lipofuscinosis, neuronal 1, infantile) (PPT1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_000445.1| Homo sapiens plectin 1, intermediate filament binding protein, 500kD (PLEC1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_001116.1| Homo sapiens adenylate cyclase 9 (ADCY9), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_001350.1| Homo sapiens death-associated protein 6 (DAXX), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_001903.1| Homo sapiens catenin (cadherin-associated protein), alpha 1 (102kD) (CTNNA1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_002032.1| Homo sapiens ferritin, heavy polypeptide 1 (FTH1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_002264.1| Homo sapiens karyopherin alpha 1 (importin alpha 5) (KPNA1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_002577.1| Homo sapiens p21 (CDKN1A)-activated kinase 2 (PAK2), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_003099.1| Homo sapiens sorting nexin 1 (SNX1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_003128.1| Homo sapiens spectrin, beta, non-erythrocytic 1 (SPTBN1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_003186.1| Homo sapiens transgelin (TAGLN), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_003198.1| Homo sapiens transcription elongation factor B (SIII), polypeptide 3 (110kD, elongin A) (TCEB3), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_003461.1| Homo sapiens zyxin (ZYX), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_003557.1| Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type I, alpha (PIP5K1A), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_003747.1| Homo sapiens tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase (TNKS), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_004238.1| Homo sapiens thyroid hormone receptor interactor 12 (TRIP12), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_004629.1| Homo sapiens Fanconi anemia, complementation group G (FANCG), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
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Human GIT1 AA130-382	21	pB5	ref|NM_004689.1| Homo sapiens metastasis associated 1 (MTA1), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA130-382	21	pB5	ref|NM_005028.2| Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, alpha (PIP5K2A), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA130-382	21	pB5	ref|NM_005596.1| Homo sapiens nuclear factor I/B (NFIB), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA130-382	21	pB5	ref|NM_005597.1| Homo sapiens nuclear factor I/C (CCAAT-binding transcription factor) (NFIC), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA130-382	21	pB5	ref|NM_005923.2| Homo sapiens mitogen-activated protein kinase kinase kinase 5 (MAP3K5), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA130-382	21	pB5	ref|NM_006190.1| Homo sapiens origin recognition complex, subunit 2 (yeast homolog)-like (ORC2L), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA130-382	21	pB5	ref|NM_006307.1| Homo sapiens sushi-repeat-containing protein, X chromosome (SRPX), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA130-382	21	pB5	ref|NM_006312.1| Homo sapiens nuclear receptor co-repressor 2 (NCOR2), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA130-382	21	pB5	ref|NM_006346.1| Homo sapiens PIBF1 gene product (PIBF1), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA130-382	21	pB5	ref|NM_006386.1| Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 17 (72kD) (DDX17), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA130-382	21	pB5	ref|NM_006603.1| Homo sapiens stromal antigen 2 (STAG2), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA130-382	21	pB5	ref|NM_006620.1| Homo sapiens HBS1 (S. cerevisiae)-like (HBS1L), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA130-382	21	pB5	ref|NM_006802.1| Homo sapiens splicing factor 3a, subunit 3, 60kD (SF3A3), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA130-382	21	pB5	ref|NM_006947.1| Homo sapiens signal recognition particle 72kD (SRP72), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA130-382	21	pB5	ref|NM_007358.1| Homo sapiens putative DNA binding protein (M96), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA130-382	21	pB5	ref|NM_012316.1| Homo sapiens karyopherin alpha 6 (importin alpha 7) (KPNA6), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA130-382	21	pB5	ref|NM_013241.1| Homo sapiens FH1/FH2 domain-containing protein (FHOS), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA130-382	21	pB5	ref|NM_013365.1| Homo sapiens ADP-ribosylation factor binding protein GGA1 (GGA1), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA130-382	21	pB5	ref|NM_013403.1| Homo sapiens zinedin (ZIN), mRNA	Differentiated PAZ6 RP 1

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<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_013449.1| Homo sapiens bromodomain adjacent to zinc finger domain, 2A (BAZ2A), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_014064.1| Homo sapiens AD-003 protein (AD-003), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_014288.1| Homo sapiens integrin beta 3 binding protein (beta3-endonexin) (ITGB3BP), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_014345.1| Homo sapiens endocrine regulator (HRIHFB2436), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_014371.1| Homo sapiens neighbor of A-kinase anchoring protein 95 (NAKAP95), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_014632.1| Homo sapiens KIAA0750 gene product (KIAA0750), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_016160.1| Homo sapiens amyloid precursor protein homolog HSD-2 (LOC51680), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_016221.1| Homo sapiens dynactin p62 subunit (LOC51164), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_016308.1| Homo sapiens UMP-CMP kinase (LOC51727), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_017702.1| Homo sapiens hypothetical protein FLJ20186 (FLJ20186), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_018187.1| Homo sapiens hypothetical protein FLJ10707 (FLJ10707), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_018411.1| Homo sapiens hairless protein (putative single zinc finger transcription factor protein, responsible for autosomal recessive universal congenital alopecia, HR gene) (HSA277165), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_019112.1| Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 7 (ABCA7), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_020382.1| Homo sapiens PR/SET domain containing protein 07 (SET07), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_020656.1| Homo sapiens actopaxin (LOC57341), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA130-382</td><td>21</td><td>pB5</td><td>ref|NM_021121.1| Homo sapiens eukaryotic translation elongation factor 1 beta 1 (EEF1B1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>emb|AL021391.2|HS102D24 Human DNA sequence from clone RP1-102D24 on chromosome 22 Contains a novel Mitosis-specific Chromosome Segregation protein SMC1 LIKE protein gene, a novel unknown gene, and the first</td><td>Differentiated PAZ6 RP 1</td></tr>
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			coding exon of the FBLN1 gene for Fibulin 1. Contains ESTs, STSs, GSS	
Human GIT1 AA371-761	22	pB6	emb|AL021808.1|HS24O18 Human DNA sequence from clone XXbac-24o18 on chromosome 6p21.31-22.2 Contains zinc finger protein pseudogene, VNO-type olfactory receptor pseudogene, the gene for PRSS16 (protease, serine, 16 (thymus)), the gene for nuclear envelope pore membrane prote	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	emb|AL031255.1|HS694E4 Human DNA sequence from clone RP4-694E4 on chromosome 22 Contains an exon similar to phosphatidylserine decarboxylase, ESTs, GSSs and 2 CpG Islands, complete sequence [Homo sapiens]	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	emb|AL031255.1|HS694E4 Human DNA sequence from clone RP4-694E4 on chromosome 22 Contains an exon similar to phosphatidylserine decarboxylase, ESTs, GSSs and 2 CpG Islands, complete sequence [Homo sapiens]	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	emb|AL136304.10|AL136304 Human DNA sequence from clone RP1-20C7 on chromosome 6p12.3-21.2, complete sequence [Homo sapiens]	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	emb|AL137459.1|HSM802172 Homo sapiens mRNA; cDNA DKFZp434H2121 (from clone DKFZp434H2121); partial cds	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	emb|AL139289.6|AL139289 Human DNA sequence from clone RP1-92O14 on chromosome 1p33-34.2 Contains part of the TIE (tyrosine kinase with immunoglobulinand epidermal growth factor homology domains) gene, the gene for MPL (myeloproliferative leukemia virus oncogene), a gene simi	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	gb|AC005695.1|AC005695 Homo sapiens chromosome 17, clone hRPK.85_B_7, complete sequence	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	gb|AC013436.5|AC013436 Homo sapiens clone RP11-105B9, complete sequence	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	dbj|AB002326.2|AB002326 Homo sapiens mRNA for KIAA0328 protein, partial cds	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	dbj|AB007931.1|AB007931 Homo sapiens mRNA for KIAA0462 protein, partial cds	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	dbj|AB023227.1|AB023227 Homo sapiens mRNA for KIAA1010	Differentiated PAZ6 RP 1

			protein, partial cds	
Human GIT1 AA371-761	22	pB6	dbj|AB027196.1|AB027196 Homo sapiens mRNA for RIE2 sid2705, complete cds	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	dbj|AB028990.1|AB028990 Homo sapiens mRNA for KIAA1067 protein, partial cds	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	dbj|AB029018.1|AB029018 Homo sapiens mRNA for KIAA1095 protein, partial cds	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	dbj|AK025751.1|AK025751 Homo sapiens cDNA: FLJ22098 fis, clone HEP17040	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	dbj|AK027003.1|AK027003 Homo sapiens cDNA: FLJ23350 fis, clone HEP13923	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	dbj|AP001646.4|AP001646 Homo sapiens genomic DNA, chromosome 11q, clone:RP11-718B12	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	dbj|D83781.1|D83781 Human mRNA for KIAA0197 gene, partial cds	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	emb|AL050197.1|HSM800494 Homo sapiens mRNA; cDNA DKFZp586D0623 (from clone DKFZp586D0623)	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	emb|AL050385.1|HSM800531 Homo sapiens mRNA; cDNA DKFZp564L2416 (from clone DKFZp564L2416)	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	emb|AL137564.1|HSM802307 Homo sapiens mRNA; cDNA DKFZp434D098 (from clone DKFZp434D098); partial cds	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	emb|AL157498.1|HSM802495 Homo sapiens mRNA; cDNA DKFZp434G1812 (from clone DKFZp434G1812); partial cds	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	gb|AC012155.17|AC012155 Homo sapiens 6 BAC RP11-114J19 (Roswell Park Cancer Institute Human BAC Library) complete sequence	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	gb|AF009674.1|AF009674 Homo sapiens axin (AXIN) mRNA, partial cds	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	gb|AF039218.1|AF039218 Rattus norvegicus postsynaptic density protein (citron) mRNA, complete cds	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	gb|AF112207.1|AF112207 Homo sapiens translation initiation factor eIF-2b delta subunit mRNA, complete cds	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	gb|AF122819.1|AF122819 Homo sapiens Rb-associated protein mRNA, complete cds	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	gb|AF161414.1|AF161414 Homo sapiens HSPC296 mRNA, partial cds	Differentiated PAZ6 RP 1

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<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>gb|AF164622.1|AF164622 Homo sapiens golgin-67 (GOLGA5) mRNA, complete cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>gb|AF172080.1|AF172080 Homo sapiens HPC1 locus clone 173P17 genomic sequence</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>gb|AF196779.1|AF196779 Homo sapiens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds; and L-type calcium channel a</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>gb|AF230877.1|AF230877 Homo sapiens MIP-T3 mRNA, complete cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>gb|AF273048.1|AF273048 Homo sapiens CTCL tumor antigen se20-9 mRNA, complete cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>gb|AF306508.1|AF306508 Homo sapiens SUMO-1 specific protease FKSG6 mRNA, complete cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>gb|J01415.1|HUMMTCG Human mitochondrion, complete genome</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>gb|M29580.1|HUMZNF7 Human zinc-finger protein 7 (ZFP7) mRNA, complete cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>gb|M31013.1|HUMMYONM Human nonmuscle myosin heavy chain (NMHC) mRNA, 3' end</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>gb|M63256.1|HUMCDR2AA Human major Yo paraneoplastic antigen (CDR2) mRNA, 3' end</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>gb|S78388.1|S78388 28S RNA, autoantigen recognized by an anti-neuronal cell antibody [human, mRNA, 2192 nt]</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>gb|U81002.1|HSU81002 Homo sapiens TRAF4 associated factor 1 mRNA, partial cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>gb|U93181.1|HSU93181 Homo sapiens nuclear dual-specificity phosphatase (SBF1) mRNA, partial cds</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>ref|NM_001551.1| Homo sapiens immunoglobulin (CD79A) binding protein 1 (IGBP1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>ref|NM_001619.2| Homo sapiens adrenergic, beta, receptor kinase 1 (ADRBK1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>ref|NM_002224.1| Homo sapiens inositol 1,4,5-triphosphate receptor, type 3 (ITPR3), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>ref|NM_002417.1| Homo sapiens antigen identified by monoclonal antibody Ki-67 (MKI67), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
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<tr><th></th><th></th><th></th><th></th><th></th></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>ref|NM_002622.2| Homo sapiens prefoldin 1 (PFDN1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>ref|NM_002859.1| Homo sapiens paxillin (PXN), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>ref|NM_003024.1| Homo sapiens intersectin 1 (SH3 domain protein) (ITSN1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>ref|NM_003127.1| Homo sapiens spectrin, alpha, non-erythrocytic 1 (alpha-fodrin) (SPTAN1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>ref|NM_003198.1| Homo sapiens transcription elongation factor B (SIII), polypeptide 3 (110kD, elongin A) (TCEB3), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>ref|NM_003316.1| Homo sapiens tetratricopeptide repeat domain 3 (TTC3), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>ref|NM_003403.2| Homo sapiens YY1 transcription factor (YY1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>ref|NM_003626.1| Homo sapiens protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 1 (PPFIA1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>ref|NM_004289.3| Homo sapiens nuclear factor (erythroid-derived 2)-like 3 (NFE2L3), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>ref|NM_004294.1| Homo sapiens mitochondrial translational release factor 1 (MTRF1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>ref|NM_004447.1| Homo sapiens epidermal growth factor receptor pathway substrate 8 (EPS8), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>ref|NM_004986.1| Homo sapiens kinectin 1 (kinesin receptor) (KTN1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>ref|NM_004998.1| Homo sapiens myosin IC (MYO1C), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>ref|NM_005196.1| Homo sapiens centromere protein F (350/400kD, mitosin) (CENPF), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>ref|NM_005445.1| Homo sapiens chondroitin sulfate proteoglycan 6 (bamacan) (CSPG6), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>ref|NM_005493.1| Homo sapiens RAN binding protein 9 (RANBP9), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>ref|NM_006006.1| Homo sapiens zinc finger protein 145 (Kruppel-like, expressed in promyelocytic leukemia) (ZNF145), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>ref|NM_006197.1| Homo sapiens pericentriolar material 1 (PCM1), mRNA</td><td>Differentiated PAZ6 RP 1</td></tr>
<tr><td>Human GIT1 AA371-761</td><td>22</td><td>pB6</td><td>ref|NM_006311.1| Homo sapiens nuclear receptor co-</td><td>Differentiated PAZ6 RP 1</td></tr>
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			repressor 1 (NCOR1), mRNA	
Human GIT1 AA371-761	22	pB6	ref|NM_006312.1| Homo sapiens nuclear receptor co-repressor 2 (NCOR2), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_006337.1| Homo sapiens microspherule protein 1 (MCRS1), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_006766.1| Homo sapiens zinc finger protein 220 (ZNF220), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_006768.2| Homo sapiens BRCA1 associated protein (BRAP), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_007057.1| Homo sapiens ZW10 interactor (ZWINT), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_007221.1| Homo sapiens polyamine-modulated factor 1 (PMF1), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_011086.1| Mus musculus phosphoinositide kinase, fyve-containing (Pikfyve), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_012197.2| Homo sapiens rab6 GTPase activating protein (GAP and centrosome-associated) (GAPCENA), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_012245.1| Homo sapiens SKI-INTERACTING PROTEIN (SNW1), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_012485.1| Homo sapiens hyaluronan-mediated motility receptor (RHAMM) (HMMR), transcript variant 2, mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_014166.1| Homo sapiens HSPC126 protein (HSPC126), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_014230.1| Homo sapiens signal recognition particle 68kD (SRP68), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_014577.1| Homo sapiens bromodomain-containing 1 (BRD1), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_014583.1| Homo sapiens LIM and cysteine-rich domains 1 (LMCD1), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_014633.1| Homo sapiens KIAA0155 gene product (KIAA0155), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_014700.1| Homo sapiens KIAA0665 gene product (KIAA0665), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_014771.1| Homo sapiens 95 kDa retinoblastoma protein binding protein; KIAA0661 gene product (KIAA0661), mRNA	Differentiated PAZ6 RP 1

Human GIT1 AA371-761	22	pB6	ref|NM_014771.1| Homo sapiens 95 kDa retinoblastoma protein binding protein; KIAA0661 gene product (KIAA0661), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_014934.1| Homo sapiens KIAA0996 protein (KIAA0996), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_015927.1| Homo sapiens transforming growth factor beta 1 induced transcript 1 (TGFB1I1), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_016151.1| Homo sapiens prostate derived STE20-like kinase PSK (PSK), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_016252.1| Homo sapiens baculoviral IAP repeat-containing 6 (BIRC6), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_016732.1| Homo sapiens RNA-binding protein (autoantigenic) (RALY), transcript variant 1, mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_018101.1| Homo sapiens hypothetical protein FLJ10468 (FLJ10468), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_018254.1| Homo sapiens hypothetical protein FLJ10876 (FLJ10876), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_018303.1| Homo sapiens hypothetical protein FLJ11026 (FLJ11026), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_019595.1| Homo sapiens intersectin 2 (ITSN2), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_021196.1| Homo sapiens sodium bicarbonate transporter 4 (NBC4), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_022464.1| Homo sapiens endoplasmic reticulum chaperone SIL1, homolog of yeast (SIL1), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|NM_022779.1| Homo sapiens hypothetical protein FLJ13633 (FLJ13633), mRNA	Differentiated PAZ6 RP 1
Human GIT1 AA371-761	22	pB6	ref|XM_006784.1| Homo sapiens prp28, U5 snRNP 100 kd protein (U5-100K), mRNA	Differentiated PAZ6 RP 1

1: Bait name	2: Bait nucleic acid SEQ ID No.	3: Prey name	4: SID nucleic acid ID No.	5: SID nucleic acid sequence	6: SID amino acid ID No.	7: SID amino acid sequence
Human ADRB3_v4	1	hgx36	34	ATGTCGAATCTGAGCAAAGGCACGGGCAGCCGGAAGGACACCAAGATGCGGATCCGGGCCTTTCCGATGACCATGGATGAAAAATATGTAAACAGCATTTGGGACCTTCTGAAAAATGCAATTCAAGAAATCCAGCGTAAGAATAACAGTGGTCTTAGTTTTGAGGAGCTCTATAGAAATGCATATACAATGGTTTTGCATAAACATGCAGAAAAGCTCTACACTGGACTAAGAGAAGTTGTTACCGAACATCTCATAAATAAGGTGCGAGAAGATGTACTAAATTCATTGAATAACAACTTTCTTCAAACGCTAAATCAAGCTTGGAATGATCATCAAACAGCTATGGTGATGATTAGAGACATACTAATGTACATGGACCGTGTGTATGTACAACAAAATAATGTGGAGAACGTCTACAATTTGGGATTAATTATTTTTCGAGATCAAGTTGTACGTTATGGGTGTATTAGGGATCATCTACGGCAAACTCTATTGGATATGATTGCAAGAGAGCGGAAAGGAGAAGTCGTAGACAGAGGCGCAATAAGAAATGCTTGCCAGATGTTAATGATTTTAGGTCTCGAAGGAAGATCAGTCTATGAAGAAGATTTTGAGGCTCCTTTTTTGGAAATGTCTGCAGAATTTTTTCAGATGGAAAGCCAGAA	772	MSNLSKGTGSRKDTKMRIRAFPMTMDEKYVNSIWDLLKNAIQEIQRKNNSGLSFEELYRNAYTMVLHKHGEKLYTGLREVVTEHLINKVREDVLNSLNNNFLQTLNQAWNDHQTAMVMIRDILMYMDRVYVQQNNVENVYNLGLIIFRDQVVRYGCIRDHLRQTLLDMIARERKGEVVDRGAIRNACQMLMILGLEGRSVYEEDFEAPFLEMSAEFFQMESQ
Human ADRB3_v4	1	prey3077	35	AAACAAACCACCTATAGCCAAGATAACTGGGAATGTGGTGATTACCCTACCCACGAGCACAGCAGAGCTGGATGGCTCTAAGTCCTCAGATGACAAGGGAATAGTCAGCTACCTCTGGACTCGAGATGAGGGGAGCCCAGCAGCAGGGGAGGTGTTAAATCACTCTGACCATCACCCTATCCTTTTTCTTTCAAACCTGGTTGAGGGAACCTACACTTTTCACCTGAAAGTGACCGATGCAAAGGGTGAGAGTGACACAGACCGGACCACTGTGGAGGTGAAACCTGATCCCAGGAAAAACAACCTGGTGGAGATCATCTTGGATATCAACGTCAGTCAGCTAACTGAGAGGCTGAAGGGGATGTTCATCCGCCAGATTGGGGTCCTCCTGGGGGTGCTGGATTCCGACATCATTGTGCAAAAGATTCAGCCGTACACGGAGCAGAGCACCAAAATGGTATTTTTTGTTCAAAACGAGCCTCCCCACCAGATCTTCAAAGGCCATGAGGTGGCAGCGATGCTCAAGAGTGAGCTGCGGAAGCAAAAGGCAGACTTTTTGATATTCAGAGCCTTGGAAGTCAACACTGTCACATGTCAGCTGAACTGTTCCGACCATGGCCACTGTGACTCGTTCACCAAACGCTGTATCTGTGACCCTTTTTGGATGGAGAATTTCATCAAGGTGCAGCTGAGGGATGGAGACAGCAACTGTGAGTGGAGCGTGTTATATGTTATCATTGCTACCTTTGTCATTGTTGTTGCCTTGGGAATCCTGTCTTGGACTGTGATCTGTTGTTGTAAGAGGCAAAA	773	NKPPIAKITGNVVITLPTSTAELDGSKSSDDKGIVSYLWTRDEGSPAAGEVLNHSDHHPILFLSNLVEGTYTFHLKVTDAKGESDTDRTTVEVKPDPRKNNLVEIILDINVSQLTERLKGMFIRQIGVLLGVLDSDIIVQKIQPYTEQSTKMVFFVQNEPPHQIFKGHEVAAMLKSELRKQKADFLIFRALEVNTVTCQLNCSDHGHCDSFTKRCICDPFWMENFIKVQLRDGDSNCEWSVLYVIIATFVIVVALGILSWTVICCCKRQKGK

				AGGAAAAC		
Human ADRB3_v4	1	prey15561	36	TTTATCCAGCACAAAGCTGACACTCCTGCAGAGAAAGCTCCAACCGGCAGCAAT GTATGAGATTAAAGTTCGATCCATCCCTGATCACTATTTTAAAGGCTTCTGGAG TGAATGGAGTCCAAGTTATTACTTCAGAACTCCAGAGATCAATAATAGCTCAGG GGAGATGGATCCTATCTTACTAACCATCAGCATTTTGAGTTTTTCTCTGTCGC TCTGTTGGTCATCTTGGCCTGTGTGTTATGGAAAAAAAGGATTAAGCCTATCGT ATGGCCCAGTCTCCCCGATCATAAGAAGACTCTGGAACATCTTTGTAAGAAACC AAGAAAAAATTTAAATGTGAGTTTCAATCCTGAAAGTTTCCTGGACTGCCAGAT TCATAGGGTGGATGACATTCAAGCTAGAGATGAAGTGGAAGGTTTTCTGCAAGA TACGTTTCCTCAGCAACTAGAAGAATCTGAGAAGCAGAGGCTTGGAGGGGATGT GCAGAGCCCCAACTGCCCATCTGAGGATGTAGTCGTCACTCCAGAAAGCTTTGG AAGAGATTCATCCCTCACATGCCTGGCTGGGAATGTCAGTGCATGTGACGCCCC TATTCTCTCCTCTTCCAGGTCCCTAGACTGCAGGGAGAGTGGCAAGAATGGGCC TCATGTGTACCAGGACCTCCTGCTTAGCCTTGGGACTACAAACAGCACGCTGCC CCCTCCATTTTCTCTCCAATCTGGAATCCTGACATTGAACCCAGTTGCTCAGGG TCAGCCCATTCTTACTTCCCTGGGATCAAATCAAGAAGAAGCATATGTCACCAT GTCCAGCTTCTACCAAAACCAGTGA	774	LSSTKLTLLQRKLQPAAMYEIKV RSIPDHYFKGFWSEWSPSYYFRT PEINNSSGEMDPILLTISILSFF SVALLVILACVLWKKRIKPIVWP SLPDHKKTLEHLCKKPRKNLNVS FNPESFLDCQIHRVDDIQARDEV EGFLQDTFPQQLEESEKQRLGGD VQSPNCPSEDVVVTPESFGRDSS LTCLAGNVSACDAPILSSSRSLD CRESGKNGPHVYQDLLLSLGTTN STLPPPFSLQSGILTLNPVAQGQ PILTSLGSNQEEAYVTMSSFYQN Q*
Human ADRB3_v4	1	prey95111	37	AGATTCATACTTGAATCTTTAAATGATTATCTAAGTCATTGATTCTCAGACTTT TTGGATTTCACAGACCAGAAAAATTTTTTTACTGGTGATTGATATAGGGAATC TAACTTTTTCATCTTAGACTATCAGAACTTTATAAAAACGATAACTACTGTCTT TTGTGATCCACATTTTATTTTAAAAAAAAGATATTTGAAACCAAAAGTAGGAA GAATAGTCTTTAAAAAAATTTATTAAGAAAAAACTCATTCTAGTACACATTTTT C	775	RFILESLNDYLSH*FSDFLDFTD QKNFFYW*LI*GI*LFHLRLSEL YKNDNYCLL*STFYF*KKDI*NQ K*EE*SLKKFIKKKLILVHIF
Human ADRB3_v4	1	prey95114	38	GGCTGGGACCTCAGATATGGAGGAGGAAGAGGGCCCGCTGGCGGGTGGTCCTGG GCTCCAGGAACCACTGCAACTTGGGGAGTTGGATATCACTTCTGATGAATTCAT CCTGGATGAAGTGGATGTTCACATTCAGGCAAATCTGGAGGATGAGTTAGTAAA GGAAGCTCTTAAAACGGGTGTAGATCTCCGTCACTATTCAAAGCAAGTTGAGCT GGAGCTACAGCAGATTGAACAGAAATCCATTCGGGATTATATTCAAGAGAGTGA GAATATAGCATCTCTACACAACCAGATCACAGCCTGTGATGCTGTCCTGGAGCG AATGGAGCAGATGTTGGGAGCTTTTCAGAGTGACCTCAGCTCCATCAGCTCTGA GATCCGGACACTGCAGGAACAGTCAGGAGCCATGAACATTCGACTTCGAAATCG CCAGGCAGTTCGGGGGAAACTTGGGGAGCTTGTTGATGGTCTGGTGGTGCCTTC TGCTCTGGTCACGGCAATTCTGGAGGCTCCAGTGACAGAGCCCAGGTTCTTGGA GCAGCTACAGGAGCTGGATGCCAAGGCAGCCGCAGTCAGAGAGCAGGAAGCTAG AGGCACAGCAGCCTGCGCAGATGTCAGAGGCGTGCTCGATCGGCTCCGGGTCAA GGCAGTGACGAAGATCCGAGAGTTTATCCTCCAGAAGATTTATTCCTTCAGGAA ACCCATGACCAACTATCAGATCCCCCAGA	776	AGTSDMEEEEGPLAGGPGLQEPL QLGELDITSDEFILDEVDVHIQA NLEDELVKEALKTGVDLRHYSKQ VELELQQIEQKSIRDYIQESENI ASLHNQITACDAVLERMEQMLGA FQSDLSSISSEIRTLQEQSGAMN IRLRNRQAVRGKLGELVDGLVVP SALVTAILEAPVTEPRFLEQLQE LDAKAAAVREQEARGTAACADVR GVLDRLRVKAVTKIREFILQKIY SFRKPMTNYQIPQ
Human ADRB3_v4	1	prey95164	39	ATGGACGTGAAGCCTTCCTGGACCACCAGAGATGTGGCACTTACAGTGCACCGG GCTTTCAGGATGATTGGTCTCTTTTCTCATGGATTCTTGGCTGGCTGTGCTGTG	777	MDVKPSWTTRDVALTVHRAFRMI GLFSHGFLAGCAVWNIVVIYVLA

				TGGAATATTGTTGTGATATATGTTCTAGCAGGAGATCAGCTATCCAACCTCTC		GDQLSNL
Human ADRB3_v4	1	prey50364	40	TCCCATAGCTGTGAGTGGCGATCACGAGAACAATAAGATGTTTTCAAACTGCAG TAAACAATCAATCTATAAGACCATTGAAAGTAAGGCCCAGGAGTGTTTTCAAGA ACGCAGCAATAAAGTTTGTGGGAACTCGAGGGTGGATGAAGGAGAAGAGTGTGA TCCTGGCATCATGTATCTGAACAACGACACCTGCTGCAACAGCGACTGCACGTT GAAGGAAGGTGTCCAGTGCAGTGACAGGAACAGTCCTTGCTGTAAAAACTGTCA GTTTGAGACTGCCCAGAAGAAGTGCCAGGAGGCGATTAATGCTACTTGCAAAGG CGTGTCCTACTGCACAGGTAATAGCAGTGAGTGCCCGCCTCCAGGAAATGCTGA AGATGACACTGTTTGCTTGGATCTTGGCAAGTGTAAGGATGGGAAATGCATCCC TTTCTGCGAGAGGGAACAGCAGCTGGAGTCCTGTGCATGTAATGAAACTGACAA CTCCTGCAAGGTGTGCTGCAGGGACCTTTCCGGCCGCTGTGTGCCCTATGTCGA TGCTGAACAAAAGAACTTATTTTTGAGGAAAGGAAAGCCCTGTACAGTAGGATT TTGTGACATGAATGGCAAATGTGAGAAACGAGTACAGGATGTAATTGAACGATT TTGGGATTTCATTGACCAGCTGAGCATCAATACTTTTGGAAAGTTTTTAGCAGA CAACATCGTTGGGTCTGTCCTGGTTTTCTCCTTGATATTTGGATTCCTTTCAG CATTCTTGTCCATTGTGTGTAA	778	PIAVSGDHENNKMFSNCSKQSIY KTIESKAQECFQERSNKVCGNSR VDEGEECDPGIMYLNNDTCCNSD CTLKEGVQCSDRNSPCCKNCQFE TAQKKCQEAINATCKGVSYCTGN SSECPPPGNAEDDTVCLDLGKCK DGKCIPFCEREQQLESCACNETD NSCKVCCRDLSGRCVPYVDAEQK NLFLRKGKPCTVGFCDMNGKCEK RVQDVIERFWDFIDQLSINTFGK FLADNIVGSVLVFSLIFWIPFSI LVHCV*
Human ADRB3_v4	1	prey95122	41	CGGGAACCNTGGGTCGAGNAAGCGCAGAATGGCCCTCGGTNTCCTGCTNGNNCG CCTCGGCTCATGTTAACNGGGGGAGAGNNACNTTGNAAGTGTTNAGGTTNCAAG CTAGNGGTGAANGCCANGAGNTNTNCNTNCTGNGNTGNNTGGTGGTAGGAGNAC TTTNGNCGNTGNNNNTGNCTGGNCCNNGGGNNGGGNNGTGGGTCGTGNTGGGTG NGGGGTTTNNNNGNGNNGNNGATNTTNGTGGGGAAGGGTAATGTGNNGNGGTN TGTGNNTAGTNNAGGGGGGGAGGGGGGGAGGACGGGGGGGGGAGTNTTTGGGTG NGGGNGTGNGGGGGANGC	779	REPWVEXAQNGPRXPAXXPRLML TGGEXXXKCXGXKLXVXAXXXXX XXXWW*EXFXRXXXLXXGXGXGS XWVXGXXXXXXXVGEG*CXXVCX *XRGGGGEDGGGSXWVXXXGGX
Human ADRB3_v4	1	prey95124	42	GCCCATATTCTCTCAATTCTATCATTTAAAAAAAATAACTACATCTACACCCTC CAAACATAAGGCTATTACATAGTATAGTCTCAACTTCTCAGCCCTCATTTGTCT TACTTCTACAGGTAACTATGTATTTAATACTTACCATCACGTCTTATGTCTCTA ATTGTTCTGCCTCTAATTGTTCTGGTACACAATACCAGAACAATGTCTCTAATT GTTCTGGTAGCCTAAAACTCAAAGTTCATTCTCTAGTACACTGTTGTCCAATAC AACTTTTTGTGATGATAGAAATATTCTATATCTCTGCTGTCCAATACAGTAGCT ACTAGCCACATGTGGCTAATGCAACTGAGGAACTACAGATTTACTCTATTTAAC TGTAATTAATTTAGTTTCCACACGTGGCTAGTGATTACCCTGCTTGACAGCACA GTTCTCACAGATTCATCAGGAAGGGCTCATGGGAAGAATATTCTTGGTTTCTCA CATGT	780	AHILSILSFKKNNYIYTLQT*GY YIV*SQLLSPHLSYFYR*LCI*Y LPSRLMSLIVLPLIVLVHNTRTM SLIVLVA*NSKFIL*YTVVQYNF L***KYSISLLSNTVATSHMWLM QLRNYRFTLFNCN*FSFHTWLVI TLLDSTVLTDSSGRAHGKNILGF SH
Human ADRB3_v4	1	prey95125	43	CCAAACACAACGCACTGCCAGAGCAAAGAGGAAATATTCAGAGGTTGATGATAG TCTGCCTTCAGGAGGAGAAAAACCATCGAAGAATGAAACCGGCTTGTTGTCTTC AATTAAAAAATTTATTAAAGGAAGCACACCTAAGGAAGAGAGAGAAAATCCTTC AAAACGGAGTAGAATTGAACGTGATATAGATAACAATTTGATCACGTCAACACC AAGAGCAGGAGAAAAACCTAACAAACAGATATCTCGAGTAAGACGGAAAAGTCA AGTAATGGAGAAGCTTGGTAGTTATGAAATGACAAATCAACATGTAAAACAAAA	781	QTQRTARAKRKYSEVDDSLPSGG EKPSKNETGLLSSIKKFIKGSTP KEERENPSKRSRIERDIDNNLIT STPRAGEKPNKQISRVRRKSQVM EKLGSYEMTNQHVKQNGKLEDNP SSGSPPRTTLLGTIFSPVFNFFS

				TGGAAAATTAGAAGATAATCCTTCCTCTGGCAGTCCTCCAAGGACTACTTTGTT GGGGACCATATTTTCACCTGTCTTCAACTTTTTTTCACCAGCAAATAAAAATGG AACGTCAGGATCAGATTCTCCAGGACAGGCTGTGGAAGCTGAAGAAATAGTAAA ACAACTTGATATGGAACAGGTGGATGAGATCACTACCAGTACTACTACATCAAC TAATGGAGCAGCTTACTCAAATCAAGCAGTTCAAGTGAGACCATCACTAAACAA TGGTTTAGAAGAAGCAGAAGAAACAGTTAATCGTGATATCCCACCCCTTACAGC ACCAGTAACTCCAGATAGTGGTTATTCATCAGCCCACGCGGAGGCCACCTATGA AGAAGACTGGGAAGTATTTGACCCCTATTATTTCATCAAACATGTCCCGCCACT GACAGAAGAACAACTAAATAGGAAACCTGCTCTTCCGTTGAAAACAAGAAGCAC A		PANKNGTSGSDSPGQAVEAEEIV KQLDMEQVDEITTSTTTSTNGAA YSNQAVQVRPSLNNGLEEAEETV NRDIPPLTAPVTPDSGYSSAHAE ATYEEDWEVFDPYYFIKHVPPLT EEQLNRKPALPLKTRST
Human ADRB3_v4	1	prey36832	44	AGAAAATACCAAGGAAGAAAAACCTGATAGTAAGAAGGTGGAGGAAGACTTAAA GGCAGACGAACCATCAAGTGAGGAAAGTGATCTAGAAATTGATAAAGAAGGTGT GATTGAACCAGACACTGATGCTCCTCAAGAAATGGGAGATGAAAATGCGGAGAT AACGGAGGAGATGATGGATCAGGCAAATGATAAAAAAGTGGCTGCTATTGAAGC CCTAAATGATGGTGAACTCCAGAAAGCCATTGACTTATTCACAGATGCCATCAA GCTGAATCCTCGCTTGGCCATTTTGTATGCCAAGAGGGCCAGTGTCTTCG	782	ENTKEEKPDSKKVEEDLKADEPS SEESDLEIDKEGVIEPDTDAPQE MGDENAEITEEMMDQANDKKVAA IEALNDGELQKAIDLFTDAIKLN PRLAILYAKRASVF
Human ADRB3_v4	1	hgx33	45	CAAAGAAGGAGAAAGGCGGACAACCCATAATATCATTGAGAAACGATATCGCTC CTCCATCAATGACAAAATCATCGAATTGAAAGACCTGGTCATGGGGACAGACGC CAAGATGCACAAGTCTGGCGTTCTGAGGAAGGCCATTGATTACATCAAATACTT GCAGCAGGTCAATCATAAACTGCGCCAGGAGAACATGGTGCTGAAGCTGGCAAA TCAAAAGAACAAGCTTCTAAAGGGCATCGACCTAGGCAGTCTGGTGGACAATGA GGTGGACCTGAAGATCGAGGACTTTAATCAGAATGTCCTTCTGATGTCCCCCCC AGCCTCTGACTCAGGGTCCCAGGCTGGCTTCTCTCCCTACTCCATTGACTCTGA GCCAGGAAGCCCTCTATTGGATGATGCAAAGGTCAAAGATGAGCCAGACTCTCC TCCTGTGGCGCTGGGCATGGTAGACCGCTCACGGATTCTTCTGTGTGTCCTCAC CTTCCTGTGCCTCTCCTTTAAC	783	KEGERRTTHNIIEKRYRSSINDK IIELKDLVMGTDAKMHKSGVLRK AIDYIKYLQQVNHKLRQENMVLK LANQKNKLLKGIDLGSLVDNEVD LKIEDFNQNVLLMSPPASDSGSQ AGFSPYSIDSEPGSPLLDDAKVK DEPDSPPVALGMVDRSRILLCVL TFLCLSFN
Human ADRB3_v4	1	prey11327	46	ATGAAAAAGCGCAAAGAGCTCAATGCATTGATTGGTTTGGCTGGGGACAGCCGG AGAAAGAAGCCCAAGAAAGGCCCAAGCAGTCACCGCCTGCTTCGCACTGAGCCT CCCGACTCAGACTCTGAGTCCAGCTCCGAAGAGGAAGAGGAATTCGGTGTGGTT GGAAATCGCTCTCGCTTTGCCAAGGGAGACTATTTACGATGCTGCAAGATCTGT TATCCGCTCTGTGGTTTTGTCATCCTTGCTGCCTGTGTTGTGGCCTGTGTTGGC TTGGTGTGGATGCAGGTTGCTCTCAAGGAGGATCTGGATGCCCTCAAGGAAAAA TTTCGAACAATGGAATCTAATCAGAAAAGCTCATTCCAAGAAATCCCCAAACTT AATGAAGAA	784	MKKRKELNALIGLAGDSRRKKPK KGPSSHRLLRTEPPDSDSESSSE EEEEFGVVGNRSRFAKGDYLRCC KICYPLCGFVILAACVVACVGLV WMQVALKEDLDALKEKFRTMESN QKSSFQEIPKLNEE
Human ADRB3_v4	1	prey3486	47	CCTTCTCGTATGATTTCTCTTACTGGGCGCGGTCTGGAGAGAAAATCACTGTTA CACCGTCATCTAAAGAGCTGCTCTTTTATCCCCCTTCAATGGAAGCCGTTGTCA GTGGAGAAAGCTGCCCAGGGAAGCTGATCGAGATCCATGGGAAGGCAGGCCTGT TTTTAGAAGGCCAGATCCACCCCGAGTTGGAAGGAGTCGAGATTGTCATCAGTG AAAAGGGGGCAAGTTCACCGCTGATCACAGTCTTTACTGATGACAAAGGTGCCT	785	FSYDFSYWARSGEKITVTPSSKE LLFYPPSMEAVVSGESCPGKLIE IHGKAGLFLEGQIHPELEGVEIV ISEKGASSPLITVFTDDKGAYSV GPLHSDLEYTVTSQKEGYVLTAV

				ACAGTGTTGGCCCCCTGCACAGTGACCTGGAGTACACGGTGACCTCACAGAAGG AGGGCTATGTTCTGACTGCGGTGGAAGGAACCATCGGAGACTTCAAGGCCTATG CCCTGGCAGGCGTAAGCTTTGAGATAAAAGCTGAGGATGACCAGCCCCTCCCGG GAGTCCTCTTATCCCTGAGCGGTGGCCTGTTTCGTTCCAACCTCTTGACCCAGG ACAACGGCATTCTGACATTCTCAAACCTGAGCCCTGGCCAGTATTACTTCAAAC CCATGATGAAGGAGTTCCGGTTTGAGCCATCCTCACAGATGATCGAGGTGCAGG AAGGCCAGAACCTGAAGATCACCATCACGGGGTACCGAACCGCTTACAGTTGCT ATGGCACAGTGTCTTCCTTAAACGGAGAGCCCGAACAAGGGGTTGCCATGGAAG CGGTGGGCCAGAACGACTGCAGCATTTACGGAGAAGACACCGTGACAGACGAAG AGGGCAAGTTCAGATTACGTGGATTGCTGCCGGGATGTGTGTACCACGTTCAGC TCAAGGCAGAAGGCAACGACCACATTGAGCGGGCGCTCCCCCACCATAGGGTGA TTGAGGTTGCGAATAATGACATCGATGATGTAAACATCATAGTTTTCCGGCAGA TTAATCAATTTGATTTAAGTGGAAATGTGATCACTTCCTCTGAATACCTTCCTA CATTATGGGTCAAGCTTTACAAAAGCGAAAACCTCGACAATCCAATCCAGACAG TTTCCCTTGGCCAGTCCCTGTTCTTCCATTTCCCCCCACTGCTCAGAGACGGCG AGAACTATGTTGTGCTTCTGGACTCCACACTCCCCAGATCCCAGTATGACTACA TCTTGCCTCAAGTTTCTTTCACCGCAGTGGGCTACCATAAACACACCACCTTGA TTTTTAATCCCACGAGGAAGCTGCCTGAACAGGACATCGCACAAGGATCCTACA TTGCCCTGCCATTGACGCTGCTGGTTCTGCTGGCCGGTTACAACCATGACAAGC TCATTCCTTTGCTGCTGCAGTTGACAAGCCGGCTACAGGGAGTCCGCGCGCTCG GCCAGGCAGCCTCTGACAATAGCGGCC		EGTIGDFKAYALAGVSFEIKAED DQPLPGVLLSLSGGLFRSNLLTQ DNGILTFSNLSPGQYYFKPMMKE FRFEPSSQMIEVQEGQNLKITIT GYRTAYSCYGTVSSLNGEPEQGV AMEAVGQNDCSIYGEDTVTDEEG KFRLRGLLPGCVYHVQLKAEGND HIERALPHHRVIEVGNNDIDDVN IIVFRQINQFDLSGNVITSSEYL PTLWVKLYKSENLDNPIQTVSLG QSLFFHFPPLLRDGENYVVLLDS TLPRSQYDYILPQVSFTAVGYHK HTTLIFNPTRKLPEQDIAQGSYI ALPLTLLVLLAGYNHDKLIPLLL QLTSRLQGVRALGQAASDNSG
Human ADRB3_v4	1	prey12665	48	GGGTGCTATTCGAGTCCAGCCTGAAGGGCCGGCTCCCTCTCTACCACGGCCTGA GAGGAAGAGCATCGTTCCCGCTCCTATGCCTGGAAACTCCTGCCCGCCTGAAGT GGATGCAAAGCTGCTGAAGCGGCACGAGCGAATGATCAAGAACCGGGAGTCAGC CTGCCAGTCCCGGAGAAAGAAGAAAGAGTATCTGCAGGGACTGGAGGCTCGGCT GCAAGCAGTACTGGCTGACAACCAGCAGCTCCGCCGAGAGAATGCTGCCCTCCG GCGGCGGCTGGAGGCCCTGCTGGCTGAAAACAGCGAGCTCAAGTTAGGGTCTGG AAACAGGAAGGTGGTCTGCATCATGGTCTTCCTTCTCTTCATTGCCTTCAACTT TGGACCTGTCAGCATCAGTGAGCCTCCTTCAGCTCCCATCTCTCCTCGGATGAA CAAGGGGGAGCCTCAACCCCGGAGACACTTGCTGGGGTTCTCAGAGCAAGAGCC AGTTCAGGGAGTTGAACCTCTCCAGGGGTCCTCCCAGGGCCCTAAGGAGCCCCA GCCCAGCCCCACAGACCAGCC	786	GAIRVQPEGPAPSLPRPERKSIV PAPMPGNSCPPEVDAKLLKRHER MIKNRESACQSRRKKKEYLQGLE ARLQAVLADNQQLRRENAALRRR LEALLAENSELKLGSGNRKVVCI MVFLLFIAFNFGPVSISEPPSAP ISPRMNKGEPQPRRHLLGFSEQE PVQGVEPLQGSSQGPKEPQPSPT DQ
Human ADRB3_v4	1	prey95141	49	AGGAAAATTTTAAAAATGTTTCAAAGGGAAGATTGTGATAAGAAAGTATTATGA AGCAACTCTTTATTAAGTAAAAGGATAGTTATTTAGTATTTTCATTTAGGTGA CTTAAAAAGTATGTATATTTTAATATGCAAATATAAAGAATTAGATATTTTACA TTGTTCTAAAAAGTCTCTGAAAACCCATGCGCATTACAGATGATCTAAACTTGA ACTAGCCACATTTTAAGGGTTTACTTGTCACAGTGGTTGGTGGCTTTCATCTTG ATAGTGCAGCTCTAGATTGTCCTGTCTCATTCTTTCAGATCCCAGCTTGCCATT TCTCAGGGAGCCCTTCTCTGATCCCCATGCCTGTCAGTTTCCCTTTAAGAGCAT	787	RKILKMFQREDCDKKVL*SNSLL SKRIVI*YFHFR*LKKYVYFNMQ I*RIRYFTLF*KVSENPCALQMI *T*TSHILRVYLSQWLVAFILIV QL*IVLSHSFRSQLAISQGALL* SPCLSVSL*EHLSQL*FIFQLVG LFDVCLFH*I*TRVSPIVFSVIA

				TTATCACAGTTGTAATTTATATTTCAATTAGTAGGATTGTTCGATGTTTGTCTC TTCCATTAGATATAGACACGAGTGTCTCCCATTGTATTCTCAGTCATTGCACAA AGCTAGTGGTCAATAAATAGTATTTGACTGAAGGAAGTGTGCAATTAGTGGTAT AAGGTAACTTGCCCAGTGTCACACATTTAATTTAGAATCAC		QS*WSINSI*LKEVCN*WYKVTC PVSHI*F*NH
Human ADRB3_v4	1	prey95143	50	CATCCATCTTCACTTCCGACATTATATCAGATTCACAAATTACTAGACAAGCTC TCAATGAAATCGAGTCACGTCACAAGGACATCATGAAGCTGGAGACCAGCATCC GAGAGTTGCATGAGATGTTCATGGACATGGCTATGTTTGTGGAGACTCAGGGTG AAATGATCAACAACATAGAAAGAAATGTTATGAATGCCACAGACTATGTAGAAC ACGCTAAAGAAGAAACAAAAAAAGCTATCAAATATCAGAGCAAGGCAAGAAGGA AAAAGTGGATAATTATTGCTGTGTCAGTGGTTCTGGTTGTCTATCGTCTATTTG GCTTGTCGTTGGAATATGTTGTACGCAGTGCTGCCTCTCTGCCAGGGTGGGGAA ATTGA	788	SIFTSDIISDSQITRQALNEIES RHKDIMKLETSIRELHEMFMDMA MFVETQGEMINNIERNVMNATDY VEHAKEETKKAIKYQSKARRKKW IIIAVSVVLVVYRLFGLSLEYVV RSAASLPGWGN*
Human ADRB3_v4	1	prey50604	51	ACAGTGTACAGATCAACCTTTTCGGCCTTCCTTGTCCCGCAATAACAGCGTACC TAATTACTGCAAAAATGATGAAGGGGATATATTCCTGGCAGCTGAGTCCTGGAA GCCTGACGTTTGTACCAGCTGCATCTGCATTGATAGCGTAATTAGCTGTTTCTC TGAGTCCTGCCCTTCTGTATCCTGTGAAAGACCTGTCTTGAGAAAAGGCCAGTG TTGTCCCTACTGCATAGAAGACACAATTCCAAAGAAGGTGGTGTGCCACTTCAG TGGGAAGGCCTATGCCGACGAGGAGCGGTGGGACCTTGACAGCTGCACCCACTG CTACTGCCTGCAGGGCCAGACCCTCTGCTCGACCGTCAGCTGCCCCCCTCTGCC CTGTGTTGAGCCCATCAACGTGGAAGGAAGTTGCTGCCCAATGTGTCCAGAAAT GTATGTCCCAGAACCAACCAATATACCCATTGAGAAGACAAACCATCGAGGAGA GGTTGACCTGGAGGTTCCCCTGTGGCCCACGCCTAGTGAAAATGATATCGTCCA TCTCCCTAGAGATATGGGTCACCTCCAGGTAGATTACAGAGATAACAGGCTGCA CCCAAGTGAAGATTCTTCACTGGACTCCATTGCCTCAGTTGTGGTTCCCATAAT TATATGCCTCTCTATTATAATAGCATTCCTATTCATCAATCAGAAGAAACAGTG GATACCACTGCTTTGCTGGTATCGAACACCAACTAAGCCTTCTTCCTTAAATAA TCAGCTAGTATCTGTGGACTGCAAGAAAGGAACCAGAGTCCAGGTGGACAGTTC CCAGAGAATGCTAAGAATTGCAGAACCAGATGCAAGATTCAGTGGCTTCTACAG CATGCAAAAACAGAAC	789	QCTDQPFRPSLSRNNSVPNYCKN DEGDIFLAAESWKPDVCTSCICI DSVISCFSESCPSVSCERPVLRK GQCCPYCIEDTIPKKVVCHFSGK AYADEERWDLDSCTHCYCLQGQT LCSTVSCPPLPCVEPINVEGSCC PMCPEMYVPEPTNIPIEKTNHRG EVDLEVPLWPTPSENDIVHLPRD MGHLQVDYRDNRLHPSEDSSLDS IASVVVPIIICLSIIIAFLFINQ KKQWIPLLCWYRTPTKPSSLNNQ LVSVDCKKGTRVQVDSSQRMLRI AEPDARFSGFYSMQKQN
Human ADRB3_v4	1	prey15532	52	GAAGCGCACAGCCCACAACGCCATTGAGAAGCGCTACCGCTCCTCCATCAATGA CAAAATCATTGAGCTCAAGGATCTGGTGGTGGGCACTGAGGCAAAGCTGAATAA ATCTGCTGTCTTGCGCAAGGCCATCGACTACATTCGCTTTCTGCAACACAGCAA CCAGAAACTCAAGCAGGAGAACCTAAGTCTGCGCACTGCTGTCCACAAAAGCAA ATCTCTGAAGGATCTGGTGTCGGCCTGTGGCAGTGGAGGGAACACAGACGTGCT CATGGAGGGCGTGAAGACTGAGGTGGAGGACACACTGACCCCACCCCCCTCGGA TGCTGGCTCACCTTTCCAGAGCAGCCCCTTGTCCCTTGGCAGCAGGGGCAGTGG CAGCGGTGGCAGTGGCAGTGACTCGGAGCCTGACAGCCCAGTCTTTGAGGACAG CAAGGCAAAGCCAGAGCAGCGGCCGTCTCTGCACAGCCGGGGCATGCTGGACCG CTCCCGCCTGGCCCTGTGCACGCTCGTCTTCCTCTGCCTGTCCTGCAACCC	790	KRTAHNAIEKRYRSSINDKIIEL KDLVVGTEAKLNKSAVLRKAIDY IRFLQHSNQKLKQENLSLRTAVH KSKSLKDLVSACGSGGNTDVLME GVKTEVEDTLTPPPSDAGSPFQS SPLSLGSRGSGSGGSGSDSEPDS PVFEDSKAKPEQRPSLHSRGMLD RSRLALCTLVFLCLSCN

Human ADRB3_v4	1	prey46457	53	GGAGGAAGAGAAACGTAGGAGAGAAGAAGAGGAAAGGCTTCGACGGGAGGAAGA GGAAAGGAGACGGATAGAAGAAGAAAGGCTTCGGTTGGAGCAGCAAAAGCAGCA GATAATGGCAGCTTTAAACTCCCAGACTGCCGTGCAGTTCCAGCAGTATGCAGC CCAACAGTATCCAGGGAACTACGAACAGCAGCAAATTCTCATCCGCCAGTTGCA GGAGCAACACTATCAGCAGTACATGCAGCAGTTGTATCAAGTCCAGCTTGCACA GCAACAGGCAGCATTACAGAAACAACAGGAAGTAGTAGTGGCTGGGTCTTCCTT GCCTACATCATCAAAAGTGAATGCAACTGTACCAAGTAATATGATGTCAGTTAA TGGACAGGCCAAAACACACACTGACAGCTCCGAAAAAGAACTGGAACCAGAAGC TGCAGAAGAAGCCCTGGAGAATGGACCAAAAGAATCTCTTCCAGTAATAGCAGC TCCATCCATGTGGACACGACCTCAGATCAAAGACTTCAAAGAGAAGATTCAGCA GGATGCAGATTCCGTGATTACAGTGGGCCGAGGAGAAGTGGTCACTGTTCGAGT ACCCACCCATGAAGAAGGATCATATCTCTTTTGGGAATTTGCCACAGACAATTA TGACATTGGGTTTGGGGTGTATTTTGAATGGACAGACTCTCCAAACACTGCTGT CAGCGTGCATGTCAGTGAGTCCAGCGATGACGACGAGGAGGAAGAAGAAAACAT CGGTTGTGAAGAGAAAGCCAAAAAGAATGCCAACAAGCCTTTGCTGGATGAGAT TGTGCCTGTGTACCGACGGGACTGTCATGAGGAGGTGTATGCTGGCAGCCATCA ATATCCAGGGAGAGGAGTCTATCTCCTCAAGTTTGACAACTCCTACTCTTTGTG GCGGTCAAAATCAGTCTACTACAGAGTCTATTATACTAGATAA	791	EEEKRRREEEERLRREEEERRRI EEERLRLEQQKQQIMAALNSQTA VQFQQYAAQQYPGNYEQQQILIR QLQEQHYQQYMQQLYQVQLAQQQ AALQKQQEVVVAGSSLPTSSKVN ATVPSNMMSVNGQAKTHTDSSEK ELEPEAAEEALENGPKESLPVIA APSMWTRPQIKDFKEKIQQDADS VITVGRGEVVTVRVPTHEEGSYL FWEFATDNYDIGFGVYFEWTDSP NTAVSVHVSESSDDDEEEEENIG CEEKAKKNANKPLLDEIVPVYRR DCHEEVYAGSHQYPGRGVYLLKF DNSYSLWRSKSVYYRVYYTR*
Human ADRB3_v4	1	prey18689	54	ATGGCAGCAGCGGAGGAGGAGGACGGGGGCCCCGAAGGGCCAAATCGCGAGCGG GGCGGGGCGGGCGCGACCTTCGAATGTAATATATGTTTGGAGACTGCTCGGGAA GCTGTGGTCAGTGTGTGTGGCCACCTGTACTGTTGGCCATGTCTTCATCAGTGG CTGGAGACACGGCCAGAACGGCAAGAGTGTCCAGTATGTAAAGCTGGGATCAGC AGAGAGAAGGTTGTCCCGCTTTATGGGCGAGGGAGCCAGAAGCCCCAGGATCCC AGATTAAAAACTCCACCCCGCCCCCAGGGCCAGAGACCAGCTCCGGAGAGCAGA GGGGGATTCCAGCCATTTGGTGATACCGGGGGCTTCCACTTCTCATTTGGTGTT GGTGCTTTTCCCTTTGGCTTTTTCACCACCGTCTTCAATGCCCATGAGCCTTTC CGCCGGGGTACAGGTGTGGATCTGGGACAGGGTCACCCAGCCTCCAGCTGGCAG GATTCCCTCTTCCTGTTTCTCGCCATCTTCTTCTTTTTTTGGCTGCTCAGTATT TGA	792	MAAAEEEDGGPEGPNRERGGAGA TFECNICLETAREAVVSVCGHLY CWPCLHQWLETRPERQECPVCKA GISREKVVPLYGRGSQKPQDPRL KTPPRPQGQRPAPESRGGFQPFG DTGGFHFSFGVGAFPFGFFTTVF NAHEPFRRGTGVDLGQGHPASSW QDSLFLFLAIFFFFWLLSI*
Human ADRB3_v4	1	prey50625	55	TACAATTAGTGCAGATGACAAGGATGACACGGCCAATGGACCAAGATTTATCTT CAGCCTACCCCCTGAAATCATTCACAATCCAAATTTCACAGTCAGAGACAACCG AGATAACACAGCAGGCGTGTACGCCCGGCGTGGAGGGTTCAGTCGGCAGAAGCA GGACTTGTACCTTCTGCCCATAGTGATCAGCGATGGCGGCATCCCGCCCATGAG TAGCACCAACACCCTCACCATCAAAGTCTGCGGGTGCGACGTGAACGGGGCACT GCTCTCCTGCAACGCAGAGGCCTACATTCTGAACGCCGGCCTGAGCACAGGCGC CCTGATCGCCATCCTCGCCTGCATCGTCATTCTCCTGGGTTGCCCAAGCTTAAT GGAACCCCCCTCTCCCAGGGAAGACATGAGATTGCTTTATCTGGGCTTCCAGCT GATGCTATTTTCCTATGTTAAAGTAAACAGAAGATTTGTCTTCTGGGGGTCTT TATAAAACTTCCTTTCCTCTATGTGGTGGCTACAGAGAGTCCAACCACACTTAC	793	TISADDKDDTANGPRFIFSLPPE IIHNPNFTVRDNRDNTAGVYARR GGFSRQKQDLYLLPIVISDGGIP PMSSTNTLTIKVCGCDVNGALLS CNAEAYILNAGLSTGALIAILAC IVILLGCPSLMEPPSPREDMRLL YLGFQLMLFSYVKVNRRFCLLGV FIKLPFLYVVATESPTTLTSL*

				GTCATTGTAG		
Human ADRB3_v4	1	prey66274	56	GCTTCCAGAAGTGGAAGTGCTCACGGATCGGGGAAATCTGCAAGGCATACCCCT GCAAGGTCTCGCTCCAAGGAAGATTCCAGGCGTTCCAGATCAAAGTCCAGGTCC CGATCTGAATCTAGGTCTAGATCCAGAAGAAGCTCCCGAAGGCATTATACCCGG TCACGGTCTCGCTCCCGCTCCCATAGACGATCACGTAGCAGGTCTTACAGTCGA GATTATCGTAGACGGCACAGCCACAGCCATTCTCCCATGTCTACTCGCAGGCGT CATGTTGGGAATCGGGCAAATCCTGATCCTAACTGTTGTCTTGGAGTATTTGGG CTGAGCTTGTACACCACAGAAAGAGATCTAAGAGAAGTGTTCTCTAAATATGGT CCCATTGCCGATGTGTCTATTGTATATGACCAGCAGTCTAGGCGTTCAAGAGGA TTTGCCTTTGTATATTTTGAAAATGTAGATGATGCCAAGGAAGCTAAAGAACGT GCCAATGGAATGGAGCTTGATGGGCGTAGGATCAGAGTTGATTTCTCTATAACA AAAAGACCACATACGCCAACACCAGGA	794	ASRSGSAHGSGKSARHTPARSRS KEDSRRSRSKSRSRSESRSRSRR SSRRHYTRSRSRSRSHRRSRSRS YSRDYRRRHSHSHSPMSTRRRHV GNRANPDPNCCLGVFGLSLYTTE RDLREVFSKYGPIADVSIVYDQQ SRRSRGFAFVYFENVDDAKEAKE RANGMELDGRRIRVDFSITKRPH TPTPG
Human ADRB3_v4	1	prey95183	57	CGGTGTGTTTTGAGGTCTCTTCCCTATGGCTGGTAGAAGTTTGAATTATCCTTA GCCCCTTGTATACTCCAGAAATTGTTTGGCCCACTGTTTTCTGGTGGTTCTTTT TCCAGCCCACACATATGCAGAATTTGTAGCCAAAGATTCTGGAGCTCACTGAAC AACTTCTTCCTCTCTTGGATTCTGACCTGTAAATACTGGCTGCTCCAGCCTCCC TAAACCCCAGTCTCTGCCTCCTCAACTCANTAACACTGNTA	795	RCVLRSLPYGW*KFELSLAPCIL QKLFGPLFSGGSFSSPHICRICS QRFWSSLNNFFLSWILTCKYWLL QPP*TPVSASSTX*HX
Human ADRB3_v4	1	prey95197	58	TGAAGATGAAAAACATTCCCTGAATTCTTCGTCAGCCTCAACCACAGAACCTGA TTTCCAGAAAGATATATTGATTGCCTGCCGATTGAACCAAAAAAAAGGGGCATA TGATATTTTCCTGAATGCAAAAGAGCAAAACATTGTGTTTAATGCTGAAACCTA CAGCAATCTCATTAAATTACTGATGTCAGAAGATTATTTACACAAGCAATGGA AGTGAAAGCATTCGCGGAGACCCACATCAAGGGCTTCACACTGAACGATGCTGC CAACAGCCGCCTCATCATAACGCAAGTTAGGCGGGATTATTTGAAAGAGGCTGT GACAACACTGAAAACAGTATTGGATCAGCAGCAGACCCCTTCTAGGTTAGCAGT GACCCGTGTCATCCAGGCATTGGCCATGAAGGGTGATGTTGAAAACATAGAAGT AGTTCAGAAGATGTTAAATGGACTCGAAGACTCCATTGGACTTTCAAAAATGGT TTTCATCAATAACATTGCTTTGGCTCAAATAAAGAATAATAACATAGATGCCGC AATAGAAAACATTGAAAATATGCTTACTTCAGAGAATAAAGTCATTGAACCCCA ATACTTCGGCTTGGCATACTTATTCAG	796	EDEKHSLNSSSASTTEPDFQKDI LIACRLNQKKGAYDIFLNAKEQN IVFNAETYSNLIKLLMSEDYFTQ AMEVKAFAETHIKGFTLNDAANS RLIITQVRRDYLKEAVTTLKTVL DQQQTPSRLAVTRVIQALAMKGD VENIEVVQKMLNGLEDSIGLSKM VFINNIALAQIKNNNIDAAIENI ENMLTSENKVIEPQYFGLAYLF
Human ADRB3_v4	1	prey53758	59	CCACACTCCACCAGGATCACCACAGCTGGCCATGCTCAAGTCCAGCAAGATGAA ACATCCTATTATACCAATTCATAATTCATTGGAAAGGCAAACGGAGTTGAGCAC TTGTGAAAATGGATCTTTAAATATGGAAATAAATGGTGAGGAAGAAATCCTAAT GAAAAATAAGAATTCCTTATATTTGAAATCTGCAGAGATAGACTGCAGCATATC AAGTGAGGAAAATACAGATGATAATATAACCGTCCAAGGTGAAATAATGAAGGA AGATAGAATGGAAAACCTGAAAAATCATGACAATAACTTGTCTCAGTCTGGATC AGACTCAAGTTGCTCTCCAGAATGCCTCTGGGAGGAAGGCAAAGAAGTTATCCC AACTTTCTTTAGTACCATGAACACAAGCTTTAGTGACATTGAACTTCTGGAAGA CAGTGGCATTCCCACAGAAGCATTCTTGGCATCATGTTGTGCTGTGGTTCCAGT ATTAGACAAACTTGGCCCTACAGTGTTTGCTCCTGTTAAGATGGATCTTGTTGA	797	HTPPGSPQLAMLKSSKMKHPIIP IHNSLERQTELSTCENGSLNMEI NGEEEILMKNKNSLYLKSAEIDC SISSEENTDDNITVQGEIMKEDR MENLKNHDNNLSQSGSDSSCSPE CLWEEGKEVIPTFFSTMNTSFSD IELLEDSGIPTEAFLASCCAVVP VLDKLGPTVFAPVKMDLVENIKK VNQKYITNKEEFTTLQKIVLHEV EADVAQVRNSATEALLWLKRGLK

				AAATATTAAGAAAGTAAATCAGAAGTATATAACCAACAAAGAAGAGTTTACCAC TCTCCAGAAGATAGTGCTGCACGAAGTGGAGGCGGATGTAGCCCAGGTTAGGAA CTCAGCGACTGAAGCCCTCTTGTGGCTGAAGAGAGGTCTCAAATTTTTGAAGGG ATTTTTGACAGAAGTGAAAAATGGGGAAAAGGATATCCAGAC		FLKGFLTEVKNGEKDIQ
Human ADRB3_v4	1	prey68357	60	GTCTGAGTGGCGCATGCAGAACATTGCCCGAGACTCTGAGAACAGCTCCGAGGA AGAGTTCTTTGATGCCCACGAAGGCTTCTCGGACAGTGAGGAGGTCTTCCCCAA GGAGATGACCAAGTGGAACTCCAATGACTTCATTGATGCCTTTGCCTCCCCAGT GGAGGCAGAGGGAACGCCAGAGCCTGGAGCCGAGGCAGCTAAAGGCATTGAGGA TGGGGCCCAAGCACCCAGGGACTCAGAGGGCCTGGATGGAGCCGGGGAGCTGGG GGCTGAGGCATGCGCAGTCCACGCCCTCTTCCTTATCCTGCACAGCGGCAACAT CCTGGACTCAGGCCCTGGAGACGCCAACTCCAAGCAGGCGGATGTGCAGACGCT GAGCTCCGCCTTCGAGGCCGTCACCCGCATCCACTTCCCTGAGGCCTTGGGCCA CGTGGCGCTGCGACTGGTGCCCTGTCCACCCATCTGCGCCGCCGCCTATGCCCT TGTCTCCAACCTGAGCCCTTACAGCCACGATGGGGACAGCCTGTCTCGCTCCCA AG	798	SEWRMQNIARDSENSSEEEFFDA HEGFSDSEEVFPKEMTKWNSNDF IDAFASPVEAEGTPEPGAEAAKG IEDGAQAPRDSEGLDGAGELGAE ACAVHALFLILHSGNILDSGPGD ANSKQADVQTLSSAFEAVTRIHF PEALGHVALRLVPCPPICAAAYA LVSNLSPYSHDGDSLSRSQ
Human ADRB3_v4	1	hgx197	61	AGTCGAGCCGCCGCCGCCCCTGCACAACAACAACAACAACTGCGAGGAAAATGA GCAGTCTCTGCCCCCGCCGGCCGGCCTCAACAGTTCCTGGGTGGAGCTACCCAT GAACAGCAGCAATGGCAATGATAATGGCAATGGGAAAAATGGGGGGCTGGAACA CGTACCATCCTCATCCTCCATCCACAATGGAGACATGGAGAAGATTCTTTTGGA TGCACAACATGAATCAGGACAGAGTAGTTCCAGAGGCAGTTCTCACTGTGACAG CCCTTCGCCACAAGAAGATGGGCAGATCATGTTTGATGTGGAAATGCACACCAG CAGGGACCATAGCTCTCAGTCAGAAGAAGAAGTTGTAGAAGGAGAGAAGGAAGT CGAGGCTTTGAAGAAAAGTGCGGACTGGGTATCAGACTGGTCCAGTAGACCCGA AAACATTCCACCCAAGGAGTTCCACTTCAGACACCCTAAACGTTCTGTGTCTTT AAGCATGAGGAAAAGTGGAGCCATGAAGAAAGGGGGTATTTTCTCCGCAGAATT TCTGAAGGTGTTCATTCCATCTCTCTTCCTTTCTCATGTTTTGGCTTTGGGGCT AGGCATCTATATTGGAAAGCGACTGAGCACA	799	VEPPPPLHNNNNNCEENEQSLPP PAGLNSSWVELPMNSSNGNDNGN GKNGGLEHVPSSSSIHNGDMEKI LLDAQHESGQSSSRGSSHCDSPS PQEDGQIMFDVEMHTSRDHSSQS EEEVVEGEKEVEALKKSADWVSD WSSRPENIPPKEFHFRHPKRSVS LSMRKSGAMKKGGIFSAEFLKVF IPSLFLSHVLALGLGIYIGKRLS T
Human ADRB3_v4	1	prey95209	62	CAAAAGCAGGCATGAAGACTCCGGGGACCAGGCCTCATCAGGTGTGGAGGTGGA GAGCAGCATGGGGCCCAGCTTGCTGCTGCCTTCAGTCACCCCAACTACAGTGAC TCCGGGGGACCAGGACTCCACCAGCCAAGAGGCAGAGGCCACAGTGCTGCCAGC TGCAGGGCTTGGGGTAGAGTTCGAGGCTCCTCAGGAAGCAAGCGAGGAAGCCAC TGCAGGAGCAGCTGGTTTGTCTGGCCAGCACGAGGAGGTGCCGGCCTTGCCTTC ATTCCCTCAAACCACAGCTCCCAGTGGGGCCGAGCACCCAGATGAAGATCCCCT TGGCTCTAGAACCTCAGCCTCTTCCCCACTGGCCCCTGGAGACATGGAACTGAC ACCTTCCTCTGCTACCTTGGGACAAGAAGATCTCAACCAGCAGCTCCTAGAAGG GCAGGCAGCTGAAGCTCAATCCAGGATACCCTGGGATTCTACGCAGGTGATCTG CAAGGACTGGAGCAATCTGGCTGGGAAAAACTACATCATTCTGAACATGACAGA GAACATAGACTGTGAGGTGTTCCGGCAGCACCGGGGGCCACAGCTCCTGGCCCT GGTGGAAGAGGTGCTGCCCCGCCATGGCAGTGGCCACCATGGGGCCTGGCACAT	800	KSRHEDSGDQASSGVEVESSMGP SLLLPSVTPTTVTPGDQDSTSQE AEATVLPAAGLGVEFEAPQEASE EATAGAAGLSGQHEEVPALPSFP QTTAPSGAEHPDEDPLGSRTSAS SPLAPGDMELTPSSATLGQEDLN QQLLEGQAAEAQSRIPWDSTQVI CKDWSNLAGKNYIILNMTENIDC EVFRQHRGPQLLALVEEVLPRHG SGHHGAWHISLSKPSEKEQHLLM TLVGEQGVVPTQDVLSMLGDIRR SLEEIGIQNYSTTSSCQARASQV

				CTCTCTGAGCAAGCCCAGCGAGAAGGAGCAGCACCTTCTCATGACACTGGTGGG CGAGCAGGGGGTGGTGCCCACTCAAGATGTCCTTTCCATGCTGGGTGACATCCG CAGGAGCCTGGAGGAGATTGGCATCCAGAACTATTCCACAACCAGCAGCTGCCA GGCGCGGGCCAGCCAGGTGCGCAGCGACTACGGCACGCTCTTCGTGGTGCTGGT GGTCATTGGGGCCATCTGCATCATCATCATTGCGCTTGGCCTGCTCTACAACTG CTGGCAGCGCCGGCTGCCCAAGCTCAAGCACGTGTCGCACGGCGAGGAGCTGCG CTTCGTGGAGAACGGCTGCCACGACAA		RSDYGTLFVVLVVIGAICIIIIA LGLLYNCWQRRLPKLKHVSHGEE LRFVENGCHD
Human ADRB3_v4	1	prey35075	63	GGGAAAATGGAAGGAAGTGAAGATTGACCCAAATATGTTTGCAGATGGACAGAT GGATGACTTGGTGTGCTTTGAGGAATTGACAGATTACCAGTTGGTCTCCCCTGC CAAGAATCCCTCCAGTCTCTTCTCAAAGGAAGCACCCAAGAGAAAGGCACAAGC TGTTTCAGAAGAAGAGGAGGAGGAGGAGGGAAAGTCTAGCTCACCAAAGAAAAA GATCAAGTTGAAGAAAAGTAAAAATGTAGCAACTGAAGGAACCAGTACCCAGAA AGAATTTGAAGTGAAAGATCCTGAGCTGGAGGCCCAGGGAGATGACATGGTTTG TGATGATCCGGAGGCTGGGGAGATGACATCAGAAAACCTGGTCCAAACTGCTCC AAAAAAGAAGAAAAATAAAGGGAAAAAAGGGTTGGAGCCTTCTCAGAGCACTGC TGCCAAGGTGCCCAAAAAAGCGAAGACATGGATTCCTGAAGTTCATGATCAGAA AGCAGATGTGTCAGCTTGGAAGGACCTGTTTGTTCCCAGGCCGGTTCTCCGAGC ACTCAGCTTTCTAGGCTTCTCTGCAC	801	GKWKEVKIDPNMFADGQMDDLVC FEELTDYQLVSPAKNPSSLFSKE APKRKAQAVSEEEEEEEGKSSSP KKKIKLKKSKNVATEGTSTQKEF EVKDPELEAQGDDMVCDDPEAGE MTSENLVQTAPKKKKNKGKKGLE PSQSTAAKVPKKAKTWIPEVHDQ KADVSAWKDLFVPRPVLRALSFL GFSA
Human ADRB3_v4	1	prey95217	64	CCTGGGGTGACAGGCACTCCCTGATCATAATCTGTGGACTCCTGAGTCCCAGTC CCTGTCCATGAATGCACCCCTTANCATGGAATGTTCCCCTCCCCATGATGACCC ATCAGAAATTATACTTTTCTTTTCTTTTTTTTTTTTNAAAANAAANTTTNNNT TTNNCNCCNNGGTNGNNNNNCAGGGGNNNAATNTGGTTTAATTGNNATTNNAAN TTTTNGCNTCCNNGGTTAAACNATTNCCCNNGANT	802	PGVTGTP*S*SVDS*VPVPVHEC TPXHGMFPSP**PIRNYTFLFFF FFXKXXXXXXPXXXXRGXXWFNX XXXFXXPXLNXXPX
Human ADRB3_v4	1	prey34104	65	CACTAAAGGCCAGACGGTTTTGCTGTCTCAGCCTACTGTGGTACAACTTCAAGC ACCTGGAGTTCTGCCCTCTGCTCAGCCAGTCCTTGCTGTTGCTGGGGGAGTCAC ACAGCTCCCTAATCACGTGGTGAATGTGGTACCAGCCCCTTCAGCGAATAGCCC AGTGAATGGAAAACTTTCCGTGACTAAACCTGTCCTACAAAGTACCATGAGAAA TGTCGGTTCAGATATTGCTGTGCTAAGGAGACAGCAACGTATGATAAAAAATCG AGAATCCGCTTGTCAGTCTCGCAAGAAGAAGAAAGAATATATGCTAGGGTTAGA GGCGAGATTAAAGGCTGCCCTCTCAGAAAACGAGCAACTGAAGAAAGAAAATGG AACACTGAAGCGGCAGCTGGATGAAGTTGTGTCAGAGAACCAGAGGCTTAAAGT CCCTAGTCCAAAGCGAAGAGTTGTCTGTGTGATGATAGTATTGGCATTTATAAT ACTGAACTATGGACCTATGAGCATGTTGGAACAGGATTCCAGGAGAATGAACCC TAGTGTGGGACCTGCAAATCAAAGGAGGCACCTTCTAGGATTTTCTGCTAAAGA GGCACAGGACACATCAGATGGTATTATCCAGAAAAACAGCTACAGATATGATCA TTCTGTTTCAAATGACAAAGCCCTGATGGTGCTAACTGAAGAACCATTGCTTTA CATTCCCCCACCTCCTTGTCAGCCC	803	TKGQTVLLSQPTVVQLQAPGVLP SAQPVLAVAGGVTQLPNHVVNVV PAPSANSPVNGKLSVTKPVLQST MRNVGSDIAVLRRQQRMIKNRES ACQSRKKKKEYMLGLEARLKAAL SENEQLKKENGTLKRQLDEVVSE NQRLKVPSPKRRVVCVMIVLAFI ILNYGPMSMLEQDSRRMNPSVGP ANQRRHLLGFSAKEAQDTSDGII QKNSYRYDHSVSNDKALMVLTEE PLLYIPPPPCQP
Human ADRB3_v4	1	prey9030	66	TCAGACCACAGAGATAAAGAGTATATGAAGATGCAAGACACTTCCGAAATGAA AAAGAAGTTGAAGGCATTAGAAAAAGAACAGAGAGAAAGAATCCCCAGAGCAGA	804	QTTEIKEYMKMQDTSEMKKKLKA LEKEQRERIPRADELNQTGQILV

				TGAATTAAACCAAACTGGACAAATCCTTGTGGAGCAAATGGGAAAAGAAGGCCT TCCTACTGAAGAAATAAAAAATGTTCTGGAGAAGGTTTCATCAGAATGGAAGAA TGTATCTCAACATTTGGAAGATCTAGAAAGAAAGATTCAGCTACAGGAAGATAT AAATGCTTATTTCAAGCAGCTTGATGAGCTTGAAAAGGTCATCAAGACAAAGGA GGAGTGGGTAAAACACACTTCCATTTCTGAATCTTCCCGGCAGTCCTTGCCAAG CTTGAAGGATTCCTGTCAGCGGGAATTGACAAATCTTCTTGGCCTTCACCCCAA AATTGAAATGGCTCGTGCAAGCTGCTCGGCCCTGATGTCTCAGCCTTCTGCCCC AGATTTTGTCCAGCGGGGCTTCGATAGCTTTCTGGGCCGCTACCAAGCTGTACA AGAGGCTGTAGAGGATCGTCAACAACATCTAGAGAATGAACTGAAGGGCCAACC TGGACATGCATATCTGGAAACATTGAAAACACTGAAAGATGTGCTAAATGATTC AGAAAATAAGGCCCAGGTGTCTCTGAATGTCCTTAATGATCTTGCCAAGGTGGA GAAGGCCCTGCAAGAAAAAAAGACCCTTGATGAAATCCTTGAGAATCAGAAACC TGCATTACATAAACTTGCAGAAGAAACAAAGGCTCTGGAGAAAAATGTTCATCC TGATGTAGAAAAATTATATAAGCAAGAATTTGATGATGTGCAAGGAAAGTGGAA CAAGCTAAAGGTCTTGGTTTCCAAAGATCTACATTTGCTTGAGGAAATTGCTCT CACACTCAGAGCTTTTGAGGCCGATTCAACAGTCATTGAGAAGTGGATGGATGG CGTGAAAGACTTCTTAATGAAACAGC		EQMGKEGLPTEEIKNVLEKVSSE WKNVSQHLEDLERKIQLQEDINA YFKQLDELEKVIKTKEEWVKHTS ISESSRQSLPSLKDSCQRELTNL LGLHPKIEMARASCSALMSQPSA PDFVQRGFDSFLGRYQAVQEAVE DRQQHLENELKGQPGHAYLETLK TLKDVLNDSENKAQVSLNVLNDL AKVEKALQEKKTLDEILENQKPA LHKLAEETKALEKNVHPDVEKLY KQEFDDVQGKWNKLKVLVSKDLH LLEEIALTLRAFEADSTVIEKWM DGVKDFLMKQ
Human ADRB3_v4	1	prey53847	67	CACGCAGCCTAGCAATGCCGCGGGAACTAACACTACCTCGGCGTCGACTCCCAG GAGTAACTCCACACCTATTTCCACAAATAGCAACCCGTTTGGGTTGGGGAGCCT GGGAGGACTTGCAGGCCTTAGCAGCCTGGGCTTGAGCTCGACCAACTTCTCTGA GCTCCAGAGCCAGATGCAGCAGCAGCTTATGGCCAGCCCTGAGATGATGATCCA AATAATGGAAAATCCCTTTGTTCAGAGCATGCTTTCGAATCCCGATCTGATGAG GCAGCTGATTATGGCTAATCCACAGATGCAGCAATTGATTCAGAGAAACCCAGA AATCAGTCACCTGCTCAACAACCCAGACATAATGAGGCAGACACTCGAAATTGC CAGGAATCCAGCCATGATGCAAGAGATGATGAGAAATCAAGACCTGGCTCTTAG CAATCTAGAAAGCATCCCAGGTGGCTATAATGCTTTACGGCGCATGTACACTGA CATTCAAGAGCCGATGCTGAATGCCGCACAAGAGCAGTTTGGGGGTAATCCATT TGCCTCCGTGGGGAGTAGTTCCTCCTCTGGGGAAGGTACGCAGCCTTCCCGCAC AGAAAATCGCGATCCACTACCCAATCCATGGGCACCACCGCCAGCTACCCAGAG TTCTGCAACTACCAGCACGACCACAAGCACTGGTAGTGGGTCTGGCAATAGTTC CAGCAATGCTACTGGGAACACCGTTGCTGCCGCTAATTATGTCGCCAGCATCTT TAGTACCCCAGGCATGCAGAGCCTGCTGCAACAGATAACTGAAAACCCCCAGCT GATTCAGAATATGCTGTCGGCGCCCTACATGAGAAGCATGATGCAGTCGCTGAG CCAGAATCCAGATTTGGCTGCACAGATGATGCTGAATAGCCCGCTGTTTACTGC AAATCCTCAGCTGCAGGAGCAGATGCGGCCACAGCTCCCAGCCTTCCTGCAGCA GATGCAGAATCCAGACACACTATCAGCCATGTCAAACCCAAG	805	TQPSNAAGTNTTSASTPRSNSTP ISTNSNPFGLGSLGGLAGLSSLG LSSTNFSELQSQMQQQLMASPEM MIQIMENPFVQSMLSNPDLMRQL IMANPQMQQLIQRNPEISHLLNN PDIMRQTLEIARNPAMMQEMMRN QDLALSNLESIPGGYNALRRMYT DIQEPMLNAAQEQFGGNPFASVG SSSSSGEGTQPSRTENRDPLPNP WAPPPATQSSATTSTTTSTGSGS GNSSSNATGNTVAAANYVASIFS TPGMQSLLQQITENPQLIQNMLS APYMRSMMQSLSQNPDLAAQMML NSPLFTANPQLQEQMRPQLPAFL QQMQNPDTLSAMSNP
Human ADRB3_v4	1	prey3031	68	ATGGCGGGGGCTGGTTCCGCCGCTGTATCGGGGGCAGGGACCCCGGTGGCGGGG CCCACAGGCCGCGACCTTTTCGCCGAAGGGCTGCTGGAGTTCCTGCGACCCGCT GTGCAGCAGCTCGACTCTCACGTACACGCCGTCAGAGAGAGCCAGGTAGAGCTC	806	MAGAGSAAVSGAGTPVAGPTGRD LFAEGLLEFLRPAVQQLDSHVHA VRESQVELREQIDNLATELCRIN

				CGGGAACAAATTGACAACCTAGCCACAGAACTGTGCCGCATAAATGAGGATCAG AAGGTGGCCCTGGATCTTGACCCCTATGTTAAGAAGCTACTTAATGCCCGGCGA CGCGTTGTCTTGGTTAACAACATTCTACAGAATGCTCAGGAACGACTGAGACGG CTAAACCACAGTGTTGCCAAGGAAACAGCCCGCAGGAGAGCAATGCTGGATTCG GGAATTTACCCCCCTGGCTCCCCAGGCAAATAA		EDQKVALDLDPYVKKLLNARRRV VLVNNILQNAQERLRRLNHSVAK ETARRRAMLDSGIYPPGSPGK*
Human ADRB3_v4	1	prey3488	69	CAAGGCTCTGGAAGAAGACATAGAAAACCATGCAACAGATGTGCACCAGGCAGT CAAAATTGGGCAGTCCCTCTCCTCCCTGACATCTCCTGCAGAACAGGGTGTGCT GTCAGAAAAGATAGACTCATTGCAGGCCCGATACAGTGAAATTCAAGACCGCTG TTGTCGGAAGGCAGCCCTACTTGACCAAGCTCTGTCTAATGCTAGGCTGTTTGG GGAGGATGAGGTGGAGGTGCTCAACTGGCTGGCTGAGGTTGAGGACAAGCTCAG TTCAGTGTTCGTAAAGGATTTCAAACAGGATGTCCTGCACAGGCAGCATGCTGA CCACCTGGCTTTAAATGAAGAAATTGTTAATAGAAAGAAGAATGTAGATCAAGC TATTAAAAATGGTCAGGCTCTTCTAAAACAAACCACAGGTGAGGAGGTGTTACT TATCCAGGAAAAACTAGATGGTATAAAGACTCGTTACGCAGACATCACAGTTAC TAGCTCCAAGGCCCTCAGAACTTTAGAGCAAGCCCGGCAGCTGGCCACCAAGTT CCAGTCTACTTATGAGGAACTGACCGGGTGGCTGAGGGAGGTGGAGGAGGAGCT GGCAACCAGTGGAGGACAGTCTCCCACAGGGGAACAGATACCCCAGTTTCAGCA GAGACAGAAGGAATTAAAGAAGGAGGTCATGGAGCACAGGCTGGTGTTGGACAC AGTGAATGAGGTGAGCCGTGCTCTCTTAGAGCTGGTGCCCTGGAGAGCCAGAGA AGGGCTGGATAAACTTGTGTCCGATGCTAACGAGCAGTACAAACTAGTCAGTGA CACTATTGGACAAAGGGTGGATGAAATTGATGCTGCTATTCAGAGATCACAACA GTATGAGCAAGCTGCCGATGCAGAACTAGCTTGGGTTGCTGAAACAAAACGGAA ACTGATGGCTCTGGGTCCAATTCGCCTGGAACAGGACCAGACCACAGCTCAGCT TCAGGTACAGAAGGCTTTCTCCATTGACATTATTCGACACAAAGATTCAATGGA TGAACTCTTCAGTCACCGTAGTGAAATCTTTGGCACATGTGGGGAGGAGCAAAA AACTGTATTACAGGAAAAGACAGAGTCTCTAATACAGCAATATGAAGCCATTAG CCTACTCAATTCAGAGCGTTATGCCCGCCTAGAGCGGGCCCAGGTCTTAGTAAA CCAGTTTTGGGAAACTTATGAAGAGCTCAGCCCCTGGATTGAGGAAACTCGGGC ACTAATAGCACAGTTACCCTCTCCAGCCATTGATCATGAGCAGCTCAGGCAGCA ACAAGAGGAAATGAGGCAATTAAGGGAATCTATTGCTGAACACAAACCTCATAT TGACAAACTACTAAAGATAGGCCCACAACTAAAGGAATTAAACCCTGAGGAAGG GGAAATGGTGGAAGAAAAATACCAGAAAGCAGAAAACATGTATGCCCAAATAAA GGAGGAGGTGCGCCAGCGAGCCCTGGCTCTGGATGAAGCCGTGTCCCAGTCCAC ACAGATTACAGAGTTTCATGATAAAATTGAGCCTATGTTGGAGACACTGGAGAA TCTTTCCTCTCGCCTGCGTATGCCACCACTGATCCCTGCTGAAGTAGACAAGAT CAGAGAGTGCATCAGTGACAATAAGAGTGCCACCGTGGAGCTAGAAAAACTGCA GCCATCCTTTGAGGCCTTGAAGCGCCGTGGAGAGGAGCTTATTGGACGATCTCA GGGAGCAGACAAGGATCTGGCTGCAAAAGAAATCCAGGATAAATTGGATCAAAT GGTATTCTTCTGGGAGGACATCAAAGCTCGGGCTGAAGAACGAGAAATCAAATT	807	KALEEDIENHATDVHQAVKIGQS LSSLTSPAEQGVLSEKIDSLQAR YSEIQDRCCRKAALLDQALSNAR LFGEDEVEVLNWLAEVEDKLSSV FVKDFKQDVLHRQHADHLALNEE IVNRKKNVDQAIKNGQALLKQTT GEEVLLIQEKLDGIKTRYADITV TSSKALRTLEQARQLATKFQSTY EELTGWLREVEEELATSGGQSPT GEQIPQFQQRQKELKKEVMEHRL VLDTVNEVSRALLELVPWRAREG LDKLVSDANEQYKLVSDTIGQRV DEIDAAIQRSQQYEQAADAELAW VAETKRKLMALGPIRLEQDQTTA QLQVQKAFSIDIIRHKDSMDELF SHRSEIFGTCGEEQKTVLQEKTE SLIQQYEAISLLNSERYARLERA QVLVNQFWETYEELSPWIEETRA LIAQLPSPAIDHEQLRQQQEEMR QLRESIAEHKPHIDKLLKIGPQL KELNPEEGEMVEEKYQKAENMYA QIKEEVRQRALALDEAVSQSTQI TEFHDKIEPMLETLENLSSRLRM PPLIPAEVDKIRECISDNKSATV ELEKLQPSFEALKRRGEELIGRS QGADKDLAAKEIQDKLDQMVFFW EDIKARAEEREIKFLDVLELAEK FWYDMAALLTTIKDTQDIVHDLE SPGIDPSIIKQQVEAAETIKEET DGLHEELEFIRILGADLIFACGE TEKPEVRKSIDEMNNAWENLNKT WKERLEKLEDAMQAAVQYQDTLQ AMFDWLDNTVIKLCTMPPVGTDL NTVKDQLNEMKEFKVEVYQQQIE

				TCTTGATGTCCTTGAATTAGCAGAGAAGTTCTGGTATGACATGGCAGCTCTCCT GACCACCATCAAAGACACCCAGGATATTGTCCATGACTTGGAAAGCCCAGGCAT TGATCCTTCCATCATCAAACAACAGGTTGAAGCTGCTGAGACTATTAAGGAAGA GACAGATGGTCTGCATGAAGAGCTGGAGTTTATTCGGATCCTTGGAGCAGATTT GATTTTTGCCTGTGGAGAAACTGAGAAGCCTGAAGTGAGGAAGAGCATTGATGA GATGAATAATGCTTGGGAGAACTTAAACAAAACATGGAAAGAGAGGCTAGAAAA ACTTGAGGATGCTATGCAAGCTGCTGTGCAGTATCAGGACACTCTTCAGGCTAT GTTTGACTGGCTAGATAACACTGTGATTAAACTCTGCACCATGCCCCCTGTTGG CACTGACCTCAATACTGTTAAAGATCAGTTAAATGAAATGAAGGAGTTCAAAGT AGAAGTTTACCAACAGCAAATTGAGATGGAGAAGCTTAATCACCAGGGTGAACT GATGTTAAAGAAAGCTACTGATGAGACGGACAGAGACATTATACGAGAACCACT GACAGAACTCAAACACCTCTGGGAGAACCTGGGTGAGAAAATTGCCCACCGACA GCACAAACTAGAAGGGGCTCTGTTGGCCCTTGGTCAGTTCCAGCATGCCTTAGA GGAACTAATGAGTTGGCTGACTCATACCGAAGAGTTGTTAGATGCTCAGAGACC AATAAGTGGAGACCCAAAAGTCATTGAAGTTGAGCTCGCAAAGCACCATGTCCT AAAAAATGATGTTTTGGCTCATCAAGCCACAGTGGAAACAGTCAACAAAGCTGG CAATGAGCTTCTTGAATCCAGTGCTGGAGATGATGCCAGCAGCTTAAGGAGCCG TTTGGAAGCCATGAACCAATGCTGGGAGTCAGTGTTACAGAAAACAGAGGAGAG GGAGCAGCAGCTTCAGTCAACTCTGCAGCAGGCCCAGGGCTTCCACAGTGAAAT TGAAGATTTCCTCTTGGAACTTACTAGAATGGAGAGCCAGCTTTCTGCATCTAA GCCCACAGGAGGACTTCCTGAAACTGCTAGGGAACAGCTTGATACACATATGGA ACTCTATTCCCAGCTGAAAGCCAAGGAAGAGACTTATAATCAACTACTTGACAA GGGCAGACTCATGCTTCTAAGCCGTGACGACTCTGGGTCTGGCTCCAAGACAGA ACAGAGTGTAGCACTTTTGGAGCAGAAGTGGCATGTGGTCAGCAGTAAGATGGA AGAAAGAAAGTCAAAGCTGGAAGAGGCCCTCAACTTGGCAACAGAATTCCAGAA TTCCCTACAAGAATTTATCAACTGGCTCACTCTAGCAGAGCAGAGTTTAAACAT CGCTTCTCCACCAAGCCTGATTCTAAATACTGTCCTTTCCCAGATAGAAGAGCA CAAGGTTTTTGCTAATGAAGTAAATGCTCATCGAGACCAGATCATTGAGCTGGA TCAAACTGGGAATCAATTAAAGTTCCTTAGCCAAAAGCAGGATGTTGTTCTGAT CAAGAATTTGTTGGTGAGCGTGCAGTCTCGATGGGAGAAGGTTGTCCAGCGATC TATTGAAAGAGGGCGATCACTAGATGATGCCAGGAAGCGGGCAAAACAATTCCA TGAAGCTTGGAAAAAACTGATTGACTGGCTAGAAGATGCAGAGAGTCACCTGGA CTCAGAACTAGAGATATCCAATGACCCAGACAAAATTAAACTTCAGCTTTCTAA GCATAAGGAGTTTCAGAAGACTCTTGGTGGCAAGCAGCCTGTGTATGATACCAC AATTAGAACTGGCAGAGCACTGAAAGAAAAGACTTTGCTTCCCGAAGATACTCA GAAACTTGACAATTTCCTAGGAGAAGTCAGAGACAAATGGGATACTGTTTGTGG CAAGTCTGTGGAGCGGCAGCACAAGTTGGAGGAAGCCCTGCTCTTTTCGGGTCA GTTCATGGATGCTTTGCAGGCATTGGTTGACTGGTTATACAAGGTGGAGCCACA GCTGGCTGAGGACCAGCCCGTGCACGGGGACCTTGACCTCGTCATGAACCTCAT		MEKLNHQGELMLKKATDETDRDI IREPLTELKHLWENLGEKIAHRQ HKLEGALLALGQFQHALEELMSW LTHTEELLDAQRPISGDPKVIEV ELAKHHVLKNDVLAHQATVETVN KAGNELLESSAGDDASSLRSRLE AMNQCWESVLQKTEEREQQLQST LQQAQGFHSEIEDFLLELTRMES QLSASKPTGGLPETAREQLDTHM ELYSQLKAKEETYNQLLDKGRLM LLSRDDSGSGSKTEQSVALLEQK WHVVSSKMEERKSKLEEALNLAT EFQNSLQEFINWLTLAEQSLNIA SPPSLILNTVLSQIEEHKVFANE VNAHRDQIIELDQTGNQLKFLSQ KQDVVLIKNLLVSVQSRWEKVVQ RSIERGRSLDDARKRAKQFHEAW KKLIDWLEDAESHLDSELEISND PDKIKLQLSKHKEFQKTLGGKQP VYDTTIRTGRALKEKTLLPEDTQ KLDNFLGEVRDKWDTVCGKSVER QHKLEEALLFSGQFMDALQALVD WLYKVEPQLAEDQPVHGDLDLVM NLMDAHKVFQKELGKRTGTVQVL KRSGRELIENSRDDTTWVKGQLQ ELSTRWDTVCKLSVSKQSRLEQA LKQAEVFRDTVHMLLEWLSEAEQ TLRFRGALPDDTEALQSLIDTHK EFMKKVEEKRVDVNSAVAMGEVI LAVCHPDCITTIKHWITIIRARF EEVLTWAKQHQQRLETALSELVA NAELLEELLAWIQWAETTLIQRD QEPIPQNIDRVKALIAEHQTFME EMTRKQPDVDRVTKTYKRKNIEP THAPFIEKSRSGGRKSLSQPTPP PMPILSQSEAKNPRINQLSARWQ QVWLLALERQRKLNDALDRLEEL KEFANFDFDVWRKKYMRWMNHKK SRVMDFFRRIDKDQDGKITRQEF

				GGATGCACACAAGGTTTTCCAGAAGGAACTGGGAAAGCGAACAGGAACCGTTCA GGTCCTGAAGCGGTCAGGCCGAGAGCTGATTGAGAATAGTCGAGATGACACCAC TTGGGTAAAAGGACAGCTCCAGGAACTGAGCACTCGCTGGGACACTGTCTGTAA ACTCTCTGTTTCCAAACAAAGCCGGCTTGAGCAGGCCTTAAAACAAGCGGAAGT GTTTCGAGACACAGTCCACATGCTGTTGGAGTGGCTTTCTGAAGCAGAGCAAAC GCTTCGCTTTCGGGGAGCACTTCCTGATGACACAGAGGCCCTGCAGTCTCTCAT TGACACCCATAAGGAATTCATGAAGAAAGTAGAAGAAAAGCGAGTGGACGTTAA CTCAGCAGTAGCCATGGGAGAAGTCATCCTGGCTGTCTGCCACCCCGATTGCAT CACAACCATCAAACACTGGATCACCATCATCCGAGCTCGCTTCGAGGAGGTCCT GACATGGGCTAAGCAGCACCAGCAGCGTCTTGAAACGGCCTTGTCAGAACTGGT GGCTAATGCTGAGCTCCTGGAAGAACTTCTGGCATGGATCCAGTGGGCTGAGAC CACCCTCATTCAGCGGGATCAGGAGCCAATCCCGCAGAACATTGACCGAGTTAA AGCCCTTATCCCTGAGCATCAGACATTTATGGAGGAGATGACTCGCAAACAGCC TGACGTGGACCGGGTCACCAAGACATACAAAAGGAAAAACATAGAGCCTACTCA CGCGCCTTTCATAGAGAAATCCCGCAGCGGAGGCAGGAAATCCCTAAGTCAGCC AACCCCTCCTCCCATGCCAATCCTTTCACAGTCTGAAGCAAAAAACCCACGGAT CAACCAGCTTTCTGCCCGCTGGCAGCAGGTGTGGCTGTTAGCACTGGAGCGGCA AAGGAAACTGAATGATGCCTTGGATCGGCTGGAGGAGTTGAAAGAATTTGCCAA CTTTGACTTTGATGTCTGGAGGAAAAAGTATATGCGTTGGATGAATCACAAAAA GTCTCGAGTGATGGATTTCTTCCGGCGCATTGATAAGGACCAGGATGGGAAGAT AACACGTCAGGAGTTTATCGATGGCATTTTAGCATCCAAGTTCCCCACCACCAA GTTAGAGATGACTGCTGTGGCTGACATTTTCGACCGAGATGGGGATGGTTACAT TGATTATTATGAATTTGTGGCTGCTCTTCATCCCAACAAGGATGCGTATCGACC AACAACCGATGCAGATAAAATCGAAGATGAGGTTACAAGACAAGTGGCTCAGTG CAAATGTGCAAAAAGGTTTCAGGTGGAGCAGATCGGAGAGAATAAATACCGGTT TGGGGATTCTCAGCAGTTGCGGCTGGTCCGTATTCTGCGCAGCACCGTGATGGT TCGCGTTGGTGGAGGATGGATGGCCTTGGATGAATTTTTAGTGAAAAATGATCC CTGCCGAGCACGAGGTAGAACTAACATTGAACTTAGAGAGAAATTCATCCTACC AGAGGGAGCATCCCAGGGAATGACCCCCTTCCGCTCACGGGGTCGAAGGTCCAA ACCATCTTCCCGGGCAGCTTCCCCTACTCGTTCCAGCTCCAGTGCTAGTCAGAG TAACCACAGCTGTACATCCATGCCATCTTCTCCAGCCACCCCAGCCAGTGGAAC CAAGGTTATCCCATCATCAGGTAGCAAGTTGAAACGACCAACACCAACTTTTCA TTCTAGTCGGACATCCCTTGCTGGTGATACCAGCAATAGTTCTTCCCCGGCCTC CACAGGTGCCAAAACTAATCGGGCAGACCCTAAAAAGTCTGCCAGTCGCCCTGG GAGTCGGGCTGGGAGTCGAGCCGGGAGTCGAGCCAGCAGCCGGCGAGGAAGTGA CGCTTCTGACTTTGACCTCTTAGAGACGCAGTCTGCTTGTTCCGACACTTCAGA AAGCAGCGCTGCAGGGGGCCAAGGCAACTCCAGGAGAGGGCTAAACAAACCTTC CAAAATCCCAACCATGTCTAAGAAGACCACCACTGCCTCCCCCAGGACTCCAGG TCCCAAGCGATAA		IDGILASKFPTTKLEMTAVADIF DRDGDGYIDYYEFVAALHPNKDA YRPTTDADKIEDEVTRQVAQCKC AKRFQVEQIGENKYRFGDSQQLR LVRILRSTVMVRVGGGWMALDEF LVKNDPCRARGRTNIELREKFIL PEGASQGMTPFRSRGRRSKPSSR AASPTRSSSSASQSNHSCTSMPS SPATPASGTKVIPSSGSKLKRPT PTFHSSRTSLAGDTSNSSSPAST GAKTNRADPKKSASRPGSRAGSR AGSRASSRRGSDASDFDLLETQS ACSDTSESSAAGGQGNSRRGLNK PSKIPTMSKKTTTASPRTPGPKR *

Human ADRB3_v4	1	prey95234	70	GGCTGACTCAGACGGTTCTGAGAATGTGCTCTGTGGAAATAATCAAATATCTGA CTTAGGCATACTGCTTCCAGAGGTGTGTATGGCCCCAGAGGAAAAGGGAGATAA AGACGACCAACTCAACAAAGAAACAGAAGACTATTTGAACAGCCTTTTAGAAGG ATGTTTAAAAGATACTGAAGATTCCCTTTCCTATGAAGATAACCAAGACGACGA CTCCGATCTCCTTCAAGATCTCTCTCCTGAAGAAGCATCCTATAGTCTCCAGGA GAATCTGCCTTCTGATGAGAGCTGTCTTTCTCTTGATGATCTTGCCAAAAGGAT AGAGATTGCAGAGGATAAAGGCTGTACTACTCGACATTCAGGACTCCTGTCATC TGGCCCACTCTGTCTCCCCAACGTCATCTTCTGTCCTGGGGTCTCAGACTATAC CGTAGTCAGACTGGCCCCCTCGCCACCTCCCAGATACACCTTGCATGTCGTCAC GTTTGCTCTTTTCCCTCTGTGCTGTAGAATCAGAAGACAGTTACAACAGAAAGA CCTAGAGAAGATCACTGAGCAAGAACTGAAAGGAAATGATGGAAAAGAGCAGAC TCCTTCACTTCAGACACTGGGGCAGGCCCTGCTGAAACAAAAGGGTTTTGGTGG CAGAAAAAAAAGGCGTGAGTCACTGGCTATTTATAGCCCAAACAGTAAGAAGAG TCGTTATGAAAATGCCGAGAGGTGCTTTGATCCGGGAAGTACACAAGCCAATCA AAATACGCCGCCTTCGGGCAAGAGGAGCCGGAGAGCGCCATCTAGTGACCCCAC AAGTTCCCTTCCTGAAGGAAGTATTCAGTCCGGAGAAACCAAGACCCACCTCAC AGCGAGGACCAGAGAGACACCTTGTCCTACCCTTCACCCTCGAGCTTCAGAACA CCCAGCTTTTGACTTTGTGAAGAAATCAAGCTGTCTGCTGGCCCCTGGAGAGAA TGAATTCCTTGGAAATCCTTTAGATGAAGAATTGCTTCAAGAAGGGCTAGACCT GGGACTGCTCTACACAAAAGCAAATTGTTCCAAGATTCCTGTCCCAAGGCCTTT CCACCTGGTGGTGTTCGGCGCGTCTGGCTTCACCGGCCAGTTCGTGACCGAGGA GGTGGCCCGGGAGCAGGTGGACCCGGAGCGGAGCTCCCGCCTGCCCTGGGCCGT GGCGGGCCGCTCCCGGGAGAAGCTGCAGCGGGTGCTGGAGAAGGCGGCCCTGAA GCTGGGAAGACCAACACTGTCATCTGAAGTTGGAATCATCATCTGTGATATTGC TAATCCAGCCTCGCTTGATGAAATGGCTAAACAGGCAACAGTTGTCCTCAATTG CGTAGGACCATATCGGTTTTATGGAGAACCTGTAATAAAAGCATGTATTGAAAA TGGAGCCAGTTGTATCGACATCAGTGGAGAACCTCAGTTTCTGGAACTAATGCA ACTGAAGTATCATGAGAAAGCTGCAGACAAAGGGGTTTATATCATTGGAAGCAG CGGCTTTGACTCCATTCCAGCAGATCTGGGAGTAATATATACCAGAAATAAAAT GAATGGTAATTATTGA	808	ADSDGSENVLCGNNQISDLGILL PEVCMAPEEKGDKDDQLNKETED YLNSLLEGCLKDTEDSLSYEDNQ DDDSDLLQDLSPEEASYSLQENL PSDESCLSLDDLAKRIEIAEDKG CTTRHSGLLSSGPLCLPNVIFCP GVSDYTVVRLAPSPPPRYTLHVV TFALFPLCCRIRRQLQQKDLEKI TEQELKGNDGKEQTPSLQTLGQA LLKQKGFGGRKKRRESLAIYSPN SKKSRYENAERCFDPGSTQANQN TPPSGKRSRRAPSSDPTSSLPEG SIQSGETKTHLTARTRETPCPTL HPRASEHPAFDFVKKSSCLLAPG ENEFLGNPLDEELLQEGLDLGLL YTKANCSKIPVPRPFHLVVFGAS GFTGQFVTEEVAREQVDPERSSR LPWAVAGRSREKLQRVLEKAALK LGRPTLSSEVGIIICDIANPASL DEMAKQATVVLNCVGPYRFYGEP VIKACIENGASCIDISGEPQFLE LMQLKYHEKAADKGVYIIGSSGF DSIPADLGVIYTRNKMNGNY*
Human ADRB3_v4	1	prey95239	71	GAAAAAAGGGAGGAAAAGTAATGAAAATTCTGAGGTTATTACACCAGGTTTTCC CCCTAACCATGATCAGGGTGAACAGTATGAGCATAATCGGGTCCACAAACCTGA TCGTGTACATAACCCAGGTCATTCTCATGTACATCTTCCAGAACGTAATGGTCA TGATCCTGGTCGTGGACACCAAGATCTTGATCCTGATAATGAAGGTGAACTTCG ACATACTAGAAAGAGAGAAGCACCACATGTTAAAAATAATGCAATAATTTCTTT GAGAAAAGATCTAAATGAAGATGACCATCATCATGAATGTTTGAACGTCACTCA GTTATTAAAATACTATGGTCATGGTGCCAACTCTCCCATCTCAACTGATTTATT TACATACCTTTGCCCTGCATTGTTATATCAAATCGACAGCAGACTTTGTATTGA GCATTTTGACAAACTTTTAGTTGAAGATATAAATAAGGATAAAAACCTGGTTCC	809	KKGRKSNENSEVITPGFPPNHDQ GEQYEHNRVHKPDRVHNPGHSHV HLPERNGHDPGRGHQDLDPDNEG ELRHTRKREAPHVKNNAIISLRK DLNEDDHHHECLNVTQLLKYYGH GANSPISTDLFTYLCPALLYQID SRLCIEHFDKLLVEDINKDKNLV PEDEANIGASAWICGIISITVIS LLSLLGVILVPIINQGCFKFLLT

				TGAAGATGAGGCAAATATAGGGGCATCAGCCTGGATTTGTGGTATCATTTCTATCACTGTCATTAGCCTGCTTTCCTTGCTAGGCGTGATCTTGGTTCCTATCATTAACCAAGGATGCTTCAAATTCCTTCTTACATTCCTTGTTGCATTAGCTGTAGGAACAATGAGTGGAGACGCCCTTCTTCATCTACTGCCCCATTCTCAGGGTGGACATGATCACAGTCACCAACATGCACATGGGCATGGACATTCTCATGGACATGAATCTAACAAGTTTTTGGAAGAATATGATGCTGTATTGAAAGGACTTGTTGCTCTAGGAGGCAT		FLVALAVGTMSGDALLHLLPHSQGGHDHSHQHAHGHGHSHGHESNKFLEEYDAVLKGLVALGG
Human ADRB3_v4	1	prey2133	72	GGAAGAGGAGGTTTCTGAGGTGGAGTCTTTCATTTTGGATCAGGATGATTTGGAAAATCCAATGCTGGAAACAGCTTCCAAGTTGCTCTTATCAGGTACTGCTGATGGTGCAGACCTCAGGACAGTAGATCCAGAAACACAGGCTAGACTGGAAGCTTTACTAGAAGCTGCAGGAATAGGAAAATTGTCCACGGCTGATGGTAAAGCCTTTGCAGATCCTGAAGTACTTCGGAGGTTGACATCGTCTGTTAGTTGTGCGTTGGATGAAGCTGCTGCTGCACTTACCCGTATGAGAGCTGAAAGCACAGCAAATGCAGGGCAGTCGGACAACCGCAGTTTGGCAGAAGCCTGTTCAGAAGGAGATGTAAATGCTGTGCGAAAGTTACTCATTGAAGGGCGAAGTGTAAATGAACACACAGAGGAAGGGGAGAGCCTCCTTTGTTTAGCTTGTTCTGCTGGATACTATGAGCTTGCACAGGTTTTGTTGGCAATGCATGCAAATGTGGAAGATAGGGGAATCAAAGGTGACATTACACCTTTAATGGCTGCTGCTAATGGAGGACATGTCAAAATTGTGAAGTTGCTGCTAGCTCATAAAGCAGATGTTAATGCACAGTCTTCAACAGGCAATACAGCACTTACATATGCTTGTGCTGGAGGCTATGTAGATGTTGTAAAGGTGCTCTTGGAATCCGGTGCTAGTATTGAGGACCATAATGAAAATGGTCATACCCCTCTTATGGAAGCTGGAAGTGCTGGACATGTGGAAGTAGCCAGATTGCTGCTAGAAAATGGGGCTGGCATTAATACGCATTCTAATGAATTTAAAGAGAGTGCCCTTACCTTAGCTTGTTACAAAGGACACTTAGAGATGGTGCGATTTCTTTTGGAAGCAGGCGCGGATCAAGAGCAT	810	EEEVSEVESFILDQDDLENPMLETASKLLLSGTADGADLRTVDPETQARLEALLEAAGIGKLSTADGKAFADPEVLRRLTSSVSCALDEAAAALTRMRAESTANAGQSDNRSLAEACSEGDVNAVRKLLIEGRSVNEHTEEGESLLCLACSAGYYELAQVLLAMHANVEDRGIKGDITPLMAAANGGHVKIVKLLLAHKADVNAQSSTGNTALTYACAGGYVDVVKVLLESGASIEDHNENGHTPLMEAGSAGHVEVARLLLENGAGINTHSNEFKESALTLACYKGHLEMVRFLLEAGADQEH
Human ADRB3_v4	1	prey95244	73	AGATATATTAATAAAATCTGTGGAATCTTTAATTGAGCATAATGGTGGCTGTTATTTTAACTTGAGGCTTTTTGTTGAGCTGGATTGGAAGTGCAACTTATTAGAAATTACAGTGTATTTATTCCTATTTCTTGTTCTTTATGTGAGAGAAGATATACTTTAGTANGACTGAATACTTCAAAGCTGTATCTCATTTACCAATAAAATGTGAAAACAGTGGTAAATTCCTTCACTTGGGCTACCATTGNACAGGCCNA	811	RYINKICGIFN*A*WWLLF*LEAFC*AGLEVQLIRNYSVFIPISCSLCERRYTLVXLNTSKLYLIYQ*NVKTVVNSFTWATIXQA
Human ADRB3_v4	1	prey95245	74	CTTNATGTGAGTACTAANGGCGACTTCCTTCTGGCGGGCGACCTTNTGTGCTGACNNCTNCTGATGGNCTNCCGGCCCNTGTAANGAANCTTTTNCGANAATTGCTNGNCACTTTAGTCGCTNTGGCATGACGNGCTGTGGAANTCTTGNATGATTACGCATNCGGCTGGGGGNTNAANATGCNTTTAACTNNNTGGGNNGTAAGNNCNATNTCCTGTGNCCCCACTGGCATANTGGCGGNCNGGNTTNTCTTGNNNGNGAANTCTNTNNGNGNCC	812	LXVSTXGDFLLAGDLXC*XLLMXXRPX*XXFXXNCXXL*SLWHDXLWXSXMITHXAGGXXCX*LXGX*XXXPVXPLAXWRXGXSXXXXLXXX
Human ADRB3_v4	1	prey95246	75	GGGGGGCNCGAAAGGTTCAGGATTCNTTTCTANNTCNTGGAGTACCCAAAGCACACTTGGGNGAGATTGCGTGNACCANNNTATACTATTTGATTNCTGGGGNNACNCATNTGNTGNNNCACACGCTNATGGNCAACCNTGCNGAGAAAGATAGTGACGCTGGAGTTGGTTTTGCACAGGGATGCAGGATGTTGCCTCCTAGTGCGNGATAGGCAC	813	GGXERFRIXFXXXEYPKHTWXRLRXPXYTI*XLGXXXXXXTRXWXTXXRKIVTLELVLHRDAGCCLLVRDRHHCYSNXRXYXXDXXXXXXX*

				CACTGCTACTCCAACNCTAGGNTCTACANCCNGGACTNGNNTNCTNNATNNNTN NAATGACTACCTNNCTCCC		LPXS
Human ADRB3_v4	1	prey3777	76	GACATCGAAAGTCAGGAAATTGAAGCTCAAGAAGGTGAAGATGATACCTTTCTA ACAGCCCAAGATGGTGAGGAAGAAGAAAATGAGAAAGATATAGCAGGTTCTGGT GATGGTACACAAGAAGTATCTAAACCTCTTCCTTCAGAAGGGAGCCTAGCTGAG GCTGATCACACAGCTCATGAAGAGATGGAAGCTCATACGACTGTGAAAGAAGCT GAGGATGACAACATCTCGGTCACAATCCAGGCTGAAGATGCCATCACTCTGGAT TTTGATGGTGATGACCTCCTAGAAACAGGTAAAAATGTGAAAATTACAGATTCT GAAGCAAGTAAGCCAAAAGATGGGCAGGACGCCATTGCACAGAGCCCGGAGAAG GAAAGCAAGGATTATGAGATGAATGCGAACCATAAAGATGGTAAGAAGGAAGAC TGCGTGAAGGGTGACCCTGTCGAGAAGGAAGCCAGAGAAAGTTCTAAGAAAGCA GAATCTGGAGACAAAGAAAAGGATACTTTGAAGAAAGGGCCCTCGTCTACTGGG GCCTCTGGTCAAGCAAAGAGCTCTTCAAAGGAATCTAAAGACAGC	814	DIESQEIEAQEGEDDTFLTAQDG EEEENEKDIAGSGDGTQEVSKPL PSEGSLAEADHTAHEEMEAHTTV KEAEDDNISVTIQAEDAITLDFD GDDLLETGKNVKITDSEASKPKD GQDAIAQSPEKESKDYEMNANHK DGKKEDCVKGDPVEKEARESSKK AESGDKEKDTLKKGPSSTGASGQ AKSSSKESKDS
Human ADRB3_v4	1	prey15654	77	CGCTGAGGAAGGCTGTAGTGTCGGGGCCGAAGCGGACAGGGAATTGGAGGAGCT TCTGGAAAGTGCTCTTGATGATTTCGATAAAGCCAAACCCTCCCCAGCACCCCC TTCTACCACCACGGCCCCTGATGCTTCGGGGCCCCAGAAGAGATCGCCAGGAGA CACTGCCAAAGATGCCCTCTTCGCTTCCCAAGAGAAGTTTTTCCAGGAACTATT CGACAGTGAACTGGCTTCCCAAGCCACTGCGGAGTTCGAGAAGGCAATGAAGGA GTTGGCTGAGGAAGAACCCCACCTGGTGGAGCAGTTCCAAAAGCTCTCAGAGGC TGCAGGGAGAGTGGGCAGTGATATGACCTCCCAACAAGAATTCACTTCTTGCCT AAAGGAAACACTAAGTGGATTAGCCAAAAATGCCACTGACCTTCAGAACTCCAG CATGTCGGAAGAAGAGCTGACCAAGGCCATGGAGGGGCTAGGCATGGACGAAGG GGATGGGGAAGGGAACATCCTCCCCATCATGCAGAGTATTATGCAGAACCTACT CTCCAAGGATGTGCTGTACCCATCACTGAAGGAGATCACAGAAAAGTATCCAGA ATGGTTGCAGAGTCATCGGGAATCTCTACCTCCAGAGCAGTTTGAAAAATATCA GGAGCAGCACAGCGTCATGTGCAAAATATGTGAGCAGTTTGAGGCAGAG	815	AEEGCSVGAEADRELEELLESAL DDFDKAKPSPAPPSTTTAPDASG PQKRSPGDTAKDALFASQEKFFQ ELFDSELASQATAEFEKAMKELA EEEPHLVEQFQKLSEAAGRVGSD MTSQQEFTSCLKETLSGLAKNAT DLQNSSMSEEELTKAMEGLGMDE GDGEGNILPIMQSIMQNLLSKDV LYPSLKEITEKYPEWLQSHRESL PPEQFEKYQEQHSVMCKICEQFE AE
Human ADRB3_v4	1	prey95251	78	CACTCTGGACACAGTGGATACAATAGCACTGTCCCTCTGTGGTGGACTGGCTGA CAGCCGGGACATCTCCCTAGAGAAATTCAACCAGCACAGCGTCTCTTACCAGGA CCTCACCAAAAACCCCGGACTTTTGGATGACCCAAACCTAGTGGTGAAAATCAA TGGAAAGCATTATAACTGGGCTGTGGCTGCCCCCATGATCCTCTCCCTGCAAGC CTTCCAGAAAAACTTGCCCAAGAGCACCATGGACAAGCTGGAGAGGGAGAAGAT GCCCCGGAAGGGTGGGCGATGGTGGTTTTCCTGGCGACGCAGGGACTTCCTGGC CGAGGAGCGCAGTGCCCAGAAGGAGAAGACTGCAGCCAAGGAGCAGCAGGGGGA GAAGACAGAAGTCCTGAGCAGTGATGACGATGCCCCAGACAGCCCTGTGATCCT GGAGATCCCCTCCTTGCCACCCTCCACTCCACCC	816	TLDTVDTIALSLCGGLADSRDIS LEKFNQHSVSYQDLTKNPGLLDD PNLVVKINGKHYNWAVAAPMILS LQAFQKNLPKSTMDKLEREKMPR KGGRWWFSWRRRDFLAEERSAQK EKTAAKEQQGEKTEVLSSDDDAP DSPVILEIPSLPPSTPP
Human ADRB3_v4	1	prey3518	79	ATGGAGCCGCCGAATCTCTATCCGGTGAAGCTCTACGTGTACGACCTGTCCAAA GGCCTGGCCCGGCGGCTCAGCCCCATCATGCTGGGAAACAACTGGAAGGCATC TGGCACACATCCATAGTTGTGCACAAGGATGAGTTCTTCTTCGGCAGTGGTGGT ATCTCCAGCTGCCCCCCGGGAGGGACATTGCTTGGGCCTCCAGACTCTGTGGTT	817	MEPPNLYPVKLYVYDLSKGLARR LSPIMLGKQLEGIWHTSIVVHKD EFFFGSGGISSCPPGGTLLGPPD SVVDVGSTEVTEEIFLEYLSSLG

				GATGTGGGGAGTACAGAAGTCACAGAAGAAATCTTTCTGGAGTACCTCTCCTCCCTGGGGGAGTCCCTGTTCCGAGGTGAGGCCTACAACCTCTTTGAACACAATTGTAACACCTTCAGCAACGAAGTGGCACAGTTCCTGACTGGGCGGAAGATTCCTTCTTACATCACAG		ESLFRGEAYNLFEHNCNTFSNEVAQFLTGRKIPSYIT
Human ADRB3_v4	1	prey26605	80	CGCGTCTGCAGGGGTGCCGGCGACCGTGTCAGAAAAGCAAGAGTTTTACCAGCTTCTGAAGAACCTGATCAATCCAAGCTGTATGGTGCGGAGGCAAGCAGAGGAAATCTATGAAAATATCCCAGGTCTGTGTAAGACTACCTTCCTCTTAGATGCCGTCAGAAATAGAAGAGCAGGTTATGAGGTGAGACAAATGGCTGCCGCACTGCTACGACGGCTTTTGTCCTCTGGGTTTGAGGAGGTTTATCCAAATCTGCCTGCTGATGTTCAGAGAGATGTCAAGATTGAACTGATTCTGGCTGTTAAGTTAGAAACACATGCTAGCATGAGGAAAAAACTTTGTGATATTTTTGCAGTGCTGGCCAGGAATTTGATAGATGAGGATGGCACTAACCACTGGCCGGAAGGTCTGAAGTTTCTTATTGATTCAATCTACTCCAAAAATGTGGTTCTATGGGAAGTTGCACTTCACGTTTTCTGGCACTTTCCTGGGATTTTTGGGACCCAAGAGCGGCATGATTTGGATATCATCAAACGGTTGTTGGACCAGTGTATTCAAGATCAAGAACATCCAGCAATCAGGACGTTATCCGCTAGAGCTGCAGCTGCATTTGTACTTGCTAATGAGAATAATATTGCTCTTTTCAAAGACTTTGCAGACTTGCTTCCTGGAATCTTACAGGCTGTGAATGACTCATGCTACCAGGATGATGATTCAGTGCTAGAATCCCTTGTTGAGATTGCAGATACCGTACCTAAGTACTTGGGTCCTTATTTAGAAGATACTCTACAGTTGAGTTTGAAGTTATGTGGAGACTCTAGGCTTAGTAATCTGCAGCGCCAGCTGGCCCTCGAAGTTATAGTGACCTTGTCTGAAACTGCCACTCCGATGTTGAAAAAACATACAAATATTATTGCACAGGCAGT	818	ASAGVPATVSEKQEFYQLLKNLINPSCMVRRQAEEIYENIPGLCKTTFLLDAVRNRRAGYEVRQMAAALLRRLLSSGFEEVYPNLPADVQRDVKIELILAVKLETHASMRKKLCDIFAVLARNLIDEDGTNHWPEGLKFLIDSIYSKNVVLWEVALHVFWHFPGIFGTQERHDLDIIKRLLDQCIQDQEHPAIRTLSARAAAAFVLANENNIALFKDFADLLPGILQAVNDSCYQDDDSVLESLVEIADTVPKYLGPYLEDTLQLSLKLCGDSRLSNLQRQLALEVIVTLSETATPMLKKHTNIIAQA
Human ADRB3_v4	1	prey95257	81	ATGGAGGCTAAAATTGAAGATACTAAACGACGCCTTTCAGAAGTCATCTATGAGCCTTTTCAGCTCCTTAGTAAAATTATAGGGGAAGAAAGTGGCAGCCATAGGCCCAAAGCCTTATCTTCAAGTGCTTCAGAACTCTCCAATCTGTCCAGCTTGAATGGGCACTTGGAAAGCAATAACAACTACAGCATCAAGGAGGAGGAGTGTGATTCTGAGGGGGATGGCTACGGAAGTGATTCCAACATCCCCAGAAGTGACCACCCAAAGTCCACTGGTGAGCCCACAAGAGAGATAGAACTGAAAAGTTCCCAGGGGAGCAGTCTGAAGGATTTAGGCCTGAAGACAAGTTCTCTAGTTCTGGAGAAATGTTCTTTGTCTGCCTTAGTGAGCAAAGAAGATGAAGAGTTTTGTGAACTGTACACTGAGGACTTCGATTTGGAAACGGAGGGGGAGAGTAAAGTTGATAAGCTCTCAGATATTCCTCTCAAGCCAGAGGTGCTCGCGGAAGATGGTGTGGTCCTTGACAGTGAGGACGAGGTGGACTCGGCCGTGCAGCACCCGGAATTGCCAGTGAAGACGTTGGGCTTCTTTATAATGTGTGTCTATGTGTACCTCATCCTCCCCCTCCCCCACTATGTGAGTGGACTCTTTCTGGGAATTGGCCTTGGATTCATGACTGCAGTTTGCGTGATTTGGTTTTTTACACCACCAAGTGCTCATAAATATCACAAGTTACACAAAAATCTGCGACACTGGAACACAAGATCTCTGGATATCAAAGAACCTGAAATACTGAAGGGATGGATGAATGAGATTTACAACTATGATCCAGAAACCTACCATGCGACTTTGACACATTCAGTCTTTGTTCGACTTGAGGGTGGAACCTTAAGACTTTCAAAGCCCAATAAAAATATA	819	MEAKIEDTKRRLSEVIYEPFQLLSKIIGEESGSHRPKALSSSASELSNLSSLNGHLESNNNYSIKEEECDSEGDGYGSDSNIPRSDHPKSTGEPTREIELKSSQGSSLKDLGLKTSSLVLEKCSLSALVSKEDEEFCELYTEDFDLETEGESKVDKLSDIPLKPEVLAEDGVVLDSEDEVDSAVQHPELPVKTLGFFIMCVYVYLILPLPHYVSGLFLGIGLGFMTAVCVIWFFTPPSAHKYHKLHKNLRHWNTRSLDIKEPEILKGWMNEIYNYDPETYHATLTHSVFVRLEGGTLRLSKPNKNISRRASYNEPKPEVTYISQKIYDLSDSKIYLVPKTLARKRIWNKKYPICIELGQQDDFMSKAQTDKETSEEKPPAEGSEDPKKPPR

				TCCAGGAGGGCCAGCTACAATGAACCCAAGCCAGAGGTCACCTACATCAGCCAG AAAATCTATGACCTCTCAGACAGCAAGATTTATCTTGTACCTAAAACTTTGGCT CGAAAGCGAATCTGGAATAAAAAGTACCCCATTTGTATCGAGCTTGGTCAGCAA GATGACTTTATGTCTAAAGCTCAGACTGATAAGGAGACTTCAGAAGAGAAGCCG CCAGCTGAGGGAAGTGAGGACCCTAAGAAGCCACCCCGCCCTCAGGAGGGAACA AGATCTAGCCAGCGAGATCAGATACTCTATCTCTTTGGGAGAACTGGCCGAGAA AAAGAGGAATGGTTTAGGAGATTTATTCTGGCATCTAAGCTAAAGTCGGAAATC AAGAAGTCATCGGGTGTCTCTGGAGGTAAACCAGGGCTTTTGCCTGCACACAGC AGACACAACAGTCCGTCCGGGCACCTGACCCACAGCCGCAGCAGCAGCAAAGGC AGTGTGGAGGAGATCATGTCACAGCCAAAGCAGAAGGAGCTGGCAGGCAGCGTG CGGCAGAAGATGCTTCTCGACTACAGCGTGTACATGGGCAGGTGTGTCCCCCAG GAAAGCCGAAGCCCCCAGAGGAGCCCCCTGCAGAGTGCGGAGAGCAGCCCCACA GCTGGGAAGAAGTTGCCAGAGGTTCCACCCTCTGAGGAGGAAGAACAGGAAGCC TGGGTGAATGCCTTGCTTGGAAGAATATTTTGGGACTTCTTAGGAGAGAAATAC TGGTCTGATCTGGTGTCTAAGAAGATCCAAATGAAACTCAGCAAAATAAAGCTC CCCTACTTTATGAATGAGCTCACTCTGACGGAACTTGACATGGGCGTGGCTGTG CCAAAAATCCTCCAGGCCTTCAAGCCTTACGTTGATCACCAAGGACTCTGGATT GATTTGGAAATGTCCTACAATGGGTCCTTTCTGATGACTCTCGAGACCAAAATG AATTTGACCAAACTAGGTAAAGAGCCTCTTGTTGAAGCCCTGAAGGTTGGAGAA ATTGGCAAAGAAGGTTGCAGGCCCCGGGCATTCTGTCTGGCGGACAGCGATGAG GAATCCTCCAGCGCTGGCTCCTCCGAGGAAGACGATGCCCCAGAGCCCAGCGGG GGAGACAAACAGCTCCTCCCAGGGGCTGAAGGTACGTTGGAGGTCATCGAACAA GTAAGATTATGA		PQEGTRSSQRDQILYLFGRTGRE KEEWFRRFILASKLKSEIKKSSG VSGGKPGLLPAHSRHNSPSGHLT HSRSSSKGSVEEIMSQPKQKELA GSVRQKMLLDYSVYMGRCVPQES RSPQRSPLQSAESSPTAGKKLPE VPPSEEEEQEAWVNALLGRIFWD FLGEKYWSDLVSKKIQMKLSKIK LPYFMNELTLTELDMGVAVPKIL QAFKPYVDHQGLWIDLEMSYNGS FLMTLETKMNLTKLGKEPLVEAL KVGEIGKEGCRPRAFCLADSDEE SSSAGSSEEDDAPEPSGGDKQLL PGAEGTLEVIEQVRL*
Human ADRB3_v4	1	prey92124	82	TTTGGATAGCGAAAAAACAAGTGAGACTGCTGCCAAAGGGGTCAACACAGGAGG CAGGGAACCAAATACAATGGTGGAAAAAGAACGCCCTCTGGCAGATAAGAAAGC ACAGAGACCATTTGAACGAAGTGACTTTTCTGACAGCATAAAAATTCAGACTCC AGAATTAGGTGAAGTGTTTCAGAATAAAGATTCTGATTATCTGAAGAACGACAA CCCTGAGGAACATCTGAAGACCTCAGGGCTTGCAGGGGAGCCTGAGGGAGAACT CTCAAAAGAGGACCATGAGAACACAGAGAAGTACATGGGCACAGAAAGCCAGGG GTCTGCTGCTGCAGAACCTGAAGATGACTCGTTCCACTGGACTCCACATACAAG TGTAGAGCCAGGGCATAGTGACAAGAGGGAGGACTTACTTATCATAAGCAGCTT CTTTAAAGAACAACAGTCTTTGCAGCGGTTCCAGAAGTACTTTAATGTCCATGA GCTGGAAGCCTTGCTACAAGAAATGTCATCAAAACTGAAGTCAGCGCAGCAGGA GAGCCTGCCCTATAATATGGAAAAAGTCCTAGATAAGGTCTTCCGTGCTTCTGA GTCACAAATTCTGAGCATAGCAGAAAAAAATGCTTGATACTCGTGTGGCTGAAAA TAGAGATCTGGGAATGAACGAAAATAACATATTTGAAGAGGCTGCAGTGCTTGA TGACATTCAAGACCTCATCTATTTTGTCAGGTACAAGCACTCCACAGCAGAGGA GACAGCCACACTGGTGATGGCACCACCTCTAGAGGAAGGCTTGGGTGGAGCAAT GGAAGAGATGCAACCACTGCATGAAGATAATTTCTCACGAGAGAAGACAGCAGA	820	LDSEKTSETAAKGVNTGGREPNT MVEKERPLADKKAQRPFERSDFS DSIKIQTPELGEVFQNKDSDYLK NDNPEEHLKTSGLAGEPEGELSK EDHENTEKYMGTESQGSAAAEPE DDSFHWTPHTSVEPGHSDKREDL LIISSFFKEQQSLQRFQKYFNVH ELEALLQEMSSKLKSAQQESLPY NMEKVLDKVFRASESQILSIAEK MLDTRVAENRDLGMNENNIFEEA AVLDDIQDLIYFVRYKHSTAEET ATLVMAPPLEEGLGGAMEEMQPL HEDNFSREKTAELNVQVPEEPTH LDQRVIGDTHASEVSQKPNTEKD LDPGPVTTEDTPMDAIDANKQPE TAAEEPASVTPLENAILLIYSFM

				ACTTAATGTGCAGGTTCCTGAAGAACCCACCCACTTGGACCAACGTGTGATTGG GGACACTCATGCCTCAGAAGTGTCACAGAAGCCAAATACTGAGAAAGACCTGGA CCCAGGGCCAGTTACAACAGAAGACACTCCTATGGATGCTATTGATGCAAACAA GCAACCAGAGACAGCCGCCGAAGAGCCGGCAAGTGTCACACCTTTGGAAAACGC AATCCTTCTAATATATTCATTCATGTTTTATTTAACTAAGTCGCTAGTTGCTAC ATTGCCTGATGATGTTCAGCCTGGGCCTGATTTTTATGGACTGCCATGGAAACC TGTATTTATCACTGCCTTCTTGGGAATTGCTTCGTTTGCCATTTTCTTATGGAG AACTGTCCTTGTTGTGAAGGATAGAGTATATCAAGTCACGGAACAGCAAATTTC TGAGAAGTTGAAGACTATCATGAAAGAAAATACAGAACTTGTACAAAAATTGTC AAATTATGAACAGAAGATCAAGGAATCAAAGAAACATGTTCAGGAAACCAGGAA ACAAAATATGATTCTCTCTGATGAAGCAATTAAATATAAGGATAAAATCAAGAC ACTTGAAAAAAATCAGGAAATTCTGGATGACACAGCTAAAAATCTTCGTGTTAT GCTAGAATCTGAGAGAGAACAGAATGTCAAGAATCAGGACTTGATATCAGAAAA CAAGAAATCTATAGAGAAGTTAAAGGATGTTATTTCAATGAATGCCTCAGAATT TTCAGAGGTTCAGATTGCACTTAATGAAGCTAAGCTTAGTGAAGAGAAGGTGAA GTCTGAATGCCATCGGGTTCAAGAAGAAAATGCTAGGCTTAAGAAGAAAAAAGA GCAGTTGCAGCAGGAAATCGAAGACTGGAGTAAATTACATGCTGAGCTCAGTGA GCAAATCAAATCATTTGAGAAGTCTCAGAAAGATTTGGAAGTAGCTCTTACTCA CAAGGATGATAATATTAATGCTTTGACTAACTGCATTACACAGTTGAATCTGTT AGAGTGTGAATCTGAATCTGAGGGTCAAAATAAAGGTGGAAATGATTCAGATGA ATTAGCAAATGGAGAAGTGGGAGGTGACCGGAATGAGAAGATGAAAAATCAAAT TAAGCAGATGATGGATGTCTCTCGGACACAGACTGCAATATCGGTAGTTGAAGA GGATCTAAAGCTTTTACAGCTTAAGCTAAGAGCCTCCGTGTCCACTAAATGTAA CCTGGAAGACCAGGTAAAGAAATTGGAAGATGACCGCAACTCACTACAAGCTGC CAAAGCTGGACTGGAAGATGAATGCAAAACCTTGAGGCAGAAAGTGGAGATTCT GAATGAGCTCTATCAGCAGAAGGAGATGGCTTTGCAAAAGAAACTGAGTCAAGA AGAGTATGAACGGCAAGAAAGAGAGCACAGGCTGTCAGCTGCAGATGAAAAGGC AGTTTCGGCTGCAGAGGAAGTAAAAACTTACAAGCGGAGAATTGAAGAAATGGA GGATGAATTACAGAAGACAGAGCGGTCATTTAAAAACCAGATCGCTACCCATGA GAAGAAAGCTCATGAAAACTGGCTCAAAGCTCGTGCTGCAGAAAGAGCTATAGC TGAAGAGAAAAGGGAAGCTGCCAATTTGAGACACAAATTATTAGAATTAACACA AAAGATGGCAATGCTGCAAGAAGAACCTGTGATTGTAAAACCAATGCCAGGAAA ACCAAATACACAAAACCCTCCACGGAGAGGTCCTCTGAGCCAGAATGGCTCTTT TGGCCCATCCCCTGTGAGTGGTGGAGAATGCTCCCCTCCATTGACAGTGGAGCC ACCTGTGAGACCTCTCTCTGCTACTCTCAATCGAAGAGATATGCCTAGAAGTGA ATTTGGATCAGTGGACGGGCCTCTACCTCATCCTCGATGGTCAGCTGAGGCATC TGGGAAACCCTCTCCTTCTGATCCAGGATCTGGTACAGCTACCATGATGAACAG CAGCTCAAGAGGCTCTTCCCCTACCAGGGTACTCGATGAAGGCAAGGTTAATAT GGCTCCAAAAGGGCCCCCTCCTTTCCCAGGAGTCCCTCTCATGAGCACCCCCAT		FYLTKSLVATLPDDVQPGPDFYG LPWKPVFITAFLGIASFAIFLWR TVLVVKDRVYQVTEQQISEKLKT IMKENTELVQKLSNYEQKIKESK KHVQETRKQNMILSDEAIKYKDK IKTLEKNQEILDDTAKNLRVMLE SEREQNVKNQDLISENKKSIEKL KDVISMNASEFSEVQIALNEAKL SEEKVKSECHRVQEENARLKKKK EQLQQEIEDWSKLHAELSEQIKS FEKSQKDLEVALTHKDDNINALT NCITQLNLLECESESEGQNKGGN DSDELANGEVGGDRNEKMKNQIK QMMDVSRTQTAISVVEEDLKLLQ LKLRASVSTKCNLEDQVKKLEDD RNSLQAAKAGLEDECKTLRQKVE ILNELYQQKEMALQKKLSQEEYE RQEREHRLSAADEKAVSAAEEVK TYKRRIEEMEDELQKTERSFKNQ IATHEKKAHENWLKARAAERAIA EEKREAANLRHKLLELTQKMAML QEEPVIVKPMPGKPNTQNPPRRG PLSQNGSFGPSPVSGGECSPPLT VEPPVRPLSATLNRRDMPRSEFG SVDGPLPHPRWSAEASGKPSPSD PGSGTATMMNSSSRGSSPTRVLD EGKVNMAPKGPPPFPGVPLMSTP MGGPVPPPIRYGPPPQLCGPFGP RPLPPPFGPGMRPPLGLREFAPG VPPGRRDLPLHPRGFLPGHAPFR PLGSLGPREYFIPGTRLPPPTHG PQEYPPPPAVRDLLPSGSRDEPP PASQSTSQDCSQALKQSP*

				GGGAGGCCCTGTACCACCACCCATTCGATATGGACCACCACCTCAGCTCTGCGG ACCTTTTGGGCCTCGGCCACTTCCTCCACCCTTTGGCCCTGGTATGCGTCCACC ACTAGGCTTAAGAGAATTTGCACCAGGCGTTCCACCAGGAAGACGGGACCTGCC TCTCCACCCTCGGGGATTTTTACCTGGACACGCACCATTTAGACCTTTAGGTTC ACTTGGCCCAAGAGAGTACTTTATTCCTGGTACCCGATTACCACCCCCAACCCA TGGTCCCCAGGAATACCCACCACCACCTGCTGTAAGAGACTTACTGCCGTCAGG CTCTAGAGATGAGCCTCCACCTGCCTCTCAGAGCACTAGCCAGGACTGTTCACA GGCTTTAAAACAGAGCCCATAA		
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	prey97470	83	ATTTCAGGAGCAGCTTCTTTACTCTGTGCTTGAGGAACTTGTTAATAGCGGACG CTTACGAGGCACTGTGGTTGGTGGGAGACAGGATAAAGCTGTGTTTGTCCCTGA CATCTACTCCAGGACACAGAGTACTTGGGTGGATTCCTTTTTCAGGCAGAATGG CTATCTAGAATTTGATGCTTTGTCCAGACTTGGAATCCCAGATGCTGTAAGCTA CATAAAGAAAAGATATAAGACTACACAACTCTTGTTTTGAAAGCAGCTTGTGT TGGTCAAGGACTTGTGGATCAAGTGGAAGCATCAGTAGAAGAAGCCATCAGCTC TGGAACATGGGTTGATATTGCACCTCTGCTACCCACTTCTTTATCAGTTGAAGA TGCTGCCATATTGCTTCAGCAGGTGATGAGGGCATTCAGCAAACAGGCCTCAAC TGTAGTCTTTAGCGACACTGTTGTAGTCAGTGAAAAATTTATAAATGACTGTAC AGAACTGTTCCGTGAGCTGATGCACCAGAAAGCTGAAAAGGAAATGAAAAATAA TCCTGTGCATTTAATCACTGAAGAAGATCTGAAACAAATCTCCACTTTAGAAAG CGTTAGTACAAGTAAAAAGGATAAAAAAGATGAGCGAAGAAGGAAAGCAACAGA GGGCAGTGGAAGCATGAGAGGAGGAGGTGGGGGCAATGCCAGAGAGTACAAAAT TAAAAAAGTCAAGAAGAAAGGAAGAAAAGATGATGATAGTGATGATGAATCTCA ATCATCCCACACTGGAAAGAAGAAGCCAGAGATCAGTTTTATGTTCCAGGATGA GATTGAAGATTTTTTAAGAAAACACATACAAGATGCCCCTGAGGAGTTTATTTC GGAACTTGCTGAGTACTTAATAAAACCTCTTAATAAAACTTATCTCGAGGTGGT ACGTTCAGTATTCATGTCTTCAACAACTTCTGCTTCTGGGACGGGCAGAAAACG CACAATCAAGGACTTGCAAGAAGAAGTTTCAAACCTGTACAATAACATTAGGTT ATTTGAAAAAGGGATGAAGTTTTTGCAGATGACACACAGG	821	FQEQLLYSVLEELVNSGRLRGTV VGGRQDKAVFVPDIYSRTQSTWV DSFFRQNGYLEFDALSRLGIPDA VSYIKKRYKTTQLLFLKAACVGQ GLVDQVEASVEEAISSGTWVDIA PLLPTSLSVEDAAILLQQVMRAF SKQASTVVFSDTVVVSEKFINDC TELFRELMHQKAEKEMKNNPVHL ITEEDLKQISTLESVSTSKKDKK DERRRKATEGSGSMRGGGGGNAR EYKIKKVKKKGRKDDDSDDESQS SHTGKKKPEISFMFQDEIEDFLR KHIQDAPEEFISELAEYLIKPLN KTYLEVVRSVFMSSTTSASGTGR KRTIKDLQEEVSNLYNNIRLFEK GMKFFADDTQ
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	prey18289	84	GAACATTGTAGAAGAAATGGTGAACATTGTTGTTGGAGATATGGGAGAAGGGAC TACTATAAATGCAAGTGCAGATGGCAACATTGGAACTATAGAGGATGGTAGTGA CAGTGAAAATATTCAAGCAAATGGAATTCCAGGAACACCAATTTCTGTTGCATA TACACCATCCTTACCTGATGATAGATTGTCAGTCTCTTCCAATGATACTCAGGA ATCTGGAAATTCTTCAGGACCTTCACCTGGTGCTAAGTTTTCCCACATTTTACA AAAGGATGCCTTTCTAGTATTCAGGTCATTGTGTAAACTGTCAATGAAACCACT GTCAGATGGACCACCAGATCCAAAGTCTCATGAACTACGATCCAAGATTCTTTC ATTGCAGTTACTTCTATCCATTCTGCAGAATGCAGGACCTATTTTCAGGACAAA TGAGATGTTTATTAATGCTATTAAGCAGTATCTTTGTGTTGCACTCTCAAAAAA TGGAGTCTCATCTGTTCCAGAGGTTTTTGAGCTTTCTCTTTCTATATTTCTTAC TTTGTTGTCAAATTTCAAGACACATCTGAAGATGCAAATTGAGGTGTTCTTTAA	822	NIVEEMVNIVVGDMGEGTTINAS ADGNIGTIEDGSDSENIQANGIP GTPISVAYTPSLPDDRLSVSSND TQESGNSSGPSPGAKFSHILQKD AFLVFRSLCKLSMKPLSDGPPDP KSHELRSKILSLQLLLSILQNAG PIFRTNEMFINAIKQYLCVALSK NGVSSVPEVFELSLSIFLTLLSN FKTHLKMQIEVFFKEIFLYILET STSSFDHKWMVIQTLTRICADAQ SVVDIYVNYDCDLNAANIFERLV

				AGAAATTTTCTTATACATTTTGGAAACTTCTACCAGCTCATTTGATCACAAATG GATGGTTATTCAGACACTGACGAGGATTTGTGCAGATGCTCAGAGTGTAGTGGA TATTTATGTAAACTATGACTGTGACTTAAATGCAGCCAATATATTTGAAAGACT AGTAAATGATCTATCAAAAATTGCTCAAGGAAGGGGCAGTCAAGAACTTGGTAT GAGTAATGTTCAGGAATTGAGCCTGAGGAAAAAAGGTTTAGAATGCTTAGTGTC GATTTCGAAGTGTATGGTTGAATGGAGTAAGGATCAGTATGTGAATCCCAACTC CCAGACAACTCTTGGTCAGGAAAAACCCTCAGAGCAAGAGATGAGTGAAATCAA ACACCCTGAGACAATAAACAGATACGGAAGTTTAAATTCCCTGGAGTCAACATC ATCATCAGGAATAGGCAGCTACAGTACACAGATGTCTGGCACTGATAATCCAGA ACAATTTGAGGTCCTAAAGCAACAAAAAGAAATAATAGAACAAGGGATAGATTT ATTTAATAAGAAACCAAAGAGAGGAATACAGTACCTCCAAGAACAAGGGATGCT TGGCACCACACCTGAAGATATTGCCCAATTCTTACATCAAGAGGAAAGATTAGA CTCTACTCAAGTGGGTGAGTTCCTGGGAGATAATGATAAATTTAACAAAGAAGT CATGTATGCATATGTGGACCAACATGACTTTTCAGGAAAAGACTTCGTTTCAGC CCTTCGTATGTTTCTAGAAGGATTTCGTCTTCCAGGGGAAGCTCAGAAAATCGA TCGATTAATGGAAAAATTTGCTGCAAGATACCTAGAATGCAAC		NDLSKIAQGRGSQELGMSNVQEL SLRKKGLECLVSISKCMVEWSKD QYVNPNSQTTLGQEKPSEQEMSE IKHPETINRYGSLNSLESTSSSG IGSYSTQMSGTDNPEQFEVLKQQ KEIIEQGIDLFNKKPKRGIQYLQ EQGMLGTTPEDIAQFLHQEERLD STQVGEFLGDNDKFNKEVMYAYV DQHDFSGKDFVSALRMFLEGFRL PGEAQKIDRLMEKFAARYLECN
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	prey92124	85	TTTGGATAGCGAAAAAACAAGTGAGACTGCTGCCAAAGGGGTCAACACAGGAGG CAGGGAACCAAATACAATGGTGGAAAAAGAACGCCCTCTGGCAGATAAGAAAGC ACAGAGACCATTTGAACGAAGTGACTTTTCTGACAGCATAAAAATTCAGACTCC AGAATTAGGTGAAGTGTTTCAGAATAAAGATTCTGATTATCTGAAGAACGACAA CCCTGAGGAACATCTGAAGACCTCAGGGCTTGCAGGGGAGCCTGAGGGAGAACT CTCAAAAGAGGACCATGAGAACACAGAGAAGTACATGGGCACAGAAAGCCAGGG GTCTGCTGCTGCAGAACCTGAAGATGACTCGTTCCACTGGACTCCACATACAAG TGTAGAGCCAGGGCATAGTGACAAGAGGGAGGACTTACTTATCATAAGCAGCTT CTTTAAAGAACAACAGTCTTTGCAGCGGTTCCAGAAGTACTTTAATGTCCATGA GCTGGAAGCCTTGCTACAAGAAATGTCATCAAAACTGAAGTCAGCGCAGCAGGA GAGCCTGCCCTATAATATGGAAAAAGTCCTAGATAAGGTCTTCCGTGCTTCTGA GTCACAAATTCTGAGCATAGCAGAAAAAATGCTTGATACTCGTGTGGCTGAAAA TAGAGATCTGGGAATGAACGAAAATAACATATTTGAAGAGGCTGCAGTGCTTGA TGACATTCAAGACCTCATCTATTTTGTCAGGTACAAGCACTCCACAGCAGAGGA GACAGCCACACTGGTGATGGCACCACCTCTAGAGGAAGGCTTGGGTGGAGCAAT GGAAGAGATGCAACCACTGCATGAAGATAATTTCTCACGAGAGAAGACAGCAGA ACTTAATGTGCAGGTTCCTGAAGAACCCACCCACTTGGACCAACGTGTGATTGG GGACACTCATGCCTCAGAAGTGTCACAGAAGCCAAATACTGAGAAAGACCTGGA CCCAGGGCCAGTTACAACAGAAGACACTCCTATGGATGCTATTGATGCAAACAA GCAACCAGAGACAGCCGCCGAAGAGCCGGCAAGTGTCACACCTTTGGAAAACGC AATCCTTCTAATATATTCATTCATGTTTTATTTAACTAAGTCGCTAGTTGCTAC ATTGCCTGATGATGTTCAGCCTGGGCCTGATTTTTATGGACTGCCATGGAAACC TGTATTTATCACTGCCTTCTTGGGAATTGCTTCGTTTGCCATTTTCTTATGGAG	823	LDSEKTSETAAKGVNTGGREPNT MVEKERPLADKKAQRPFERSDFS DSIKIQTPELGEVFQNKDSDYLK NDNPEEHLKTSGLAGEPEGELSK EDHENTEKYMGTESQGSAAAEPE DDSFHWTPHTSVEPGHSDKREDL LIISSFFKEQQSLQRFQKYFNVH ELEALLQEMSSKLKSAQQESLPY NMEKVLDKVFRASESQILSIAEK MLDTRVAENRDLGMNENNIFEEA AVLDDIQDLIYFVRYKHSTAEET ATLVMAPPLEEGLGGAMEEMQPL HEDNFSREKTAELNVQVPEEPTH LDQRVIGDTHASEVSQKPNTEKD LDPGPVTTEDTPMDAIDANKQPE TAAEEPASVTPLENAILLIYSFM FYLTKSLVATLPDDVQPGPDFYG LPWKPVFITAFLGIASFAIFLWR TVLVVKDRVYQVTEQQISEKLKT IMKENTELVQKLSNYEQKIKE

				AACTGTCCTTGTTGTGAAGGATAGAGTATATCAAGTCACGGAACAGCAAATTTC TGAGAAGTTGAAGACTATCATGAAAGAAAATACAGAACTTGTACAAAAATTGTC AAATTATGAACAGAAGATCAAGGAAT		
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	prey4578	86	GGACGTTTGCCAGGACTGCATTCAGATGGTGACTGACATCCAGACTGCTGTACG GACCAACTCCACCTTTGTCCAGGCCTTGGTGGAACATGTCAAGGAGGAGTGTGA CCGCCTGGGCCCTGGCATGGCCGACATATGCAAGAACTATATCAGCCAGTATTC TGAAATTGCTATCCAGATGATGATGCACATGCAACCCAAGGAGATCTGTGCGCT GGTTGGGTTCTGTGATGAGGTGAAAGAGATGCCCATGCAGACTCTGGTCCCCGC CAAAGTGGCCTCCAAGAATGTCATCCCTGCCCTGGAACTGGTGGAGCCCATTAA GAAGCACGAGGTCCCAGCAAAGTCTGATGTTTACTGTGAGGTGTGTGAATTCCT GGTGAAGGAG	824	DVCQDCIQMVTDIQTAVRTNSTF VQALVEHVKEECDRLGPGMADIC KNYISQYSEIAIQMMMHMQPKEI CALVGFCDEVKEMPMQTLVPAKV ASKNVIPALELVEPIKKHEVPAK SDVYCEVCEFLVKE
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	prey4465	87	ACCACCGCCTCCAGAGCCCGTGCCCATGTACTCTGACGAGGACCTGGCGCAGGT GGTGGACGAGCTCATCCAGGAGGCCCTGCAGAGGGACTGTGAGGAAGTTGGCTC TGCGGGTGCTGCCTACGCAGCTGCCGCCCTGGGTGTTTCTAATGCTGCTATGGA GGATTTGTTAACAGCTGCAACCACGGGCATTTTGAGGCACATTGCAGCTGAAGA AGTGTCTAAGGAAAGAGAGCGAAGGGAGCAGGAGAGGCAGCGGGCTGAAGAGGA AAGGTTGAAACAAGAGAGAGAGCTGGTGTTAAGTGAGCTGAGCCAGGGCCTGGC CGTGGAGCTGATGGAACGCGTGATGATGGAGTTTGTGAGGGAAACCT	825	PPPPEPVPMYSDEDLAQVVDELI QEALQRDCEEVGSAGAAYAAAAL GVSNAAMEDLLTAATTGILRHIA AEEVSKERERREQERQRAEEERL KQERELVLSELSQGLAVELMERV MMEFVRET
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	prey97479	88	TTTTTNTCTAAAGAGTACACACGAGCTATGCATGTATGATCTCNTTAGANACTG GGTTTACTGTAGTCAGAAATGTAGTTCANNATCAACATAACGTNACATTNACTC TTGGTTTACTGNATGATAGTGCTATGCTNNGNGTNATATCTATCTATNACAGTN CTCTGNATNTGCTNATACCTAGTAGGAAGGTGATTGCCTTGCTTACNTANCANN GTNACNNTAAGTAATNTTGGCTAAGAGACGCGTGCTNTCGTGGAGGGCGNTGTT TGAAATTGACCGANGGGTGCNNCTGTTGCGCG	826	FXSKEYTRAMHV*SX*XLGLL*S EM*FXINITXHXLLVYXMIVLCX XXYLSXTVLXXCXYLVGR*LPCL XXXVTXSNXG*ETRAXVEGXV*N *PXGAXVA
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	prey2999	89	CAAGCTGGTCTCCATCGGGGCAGAAGAGATTGTGGACGGCAACGCAAAGATGAC CCTGGGAATGATCTGGACCATCATCCTTAGGTTCGCCATCCAGGACATCTCCGT GGAAGAGACCTCGGCCAAGGAAGGGCTCCTTCTCTGGTGCCAGAGAAAGACAGC CCCGTATAAGAACGTCAATGTGCAGAACTTCCACATCAGCTGGAAGGATGGTCT TGCCTTCAATGCCCTGATCCACCGGCACAGACCAGAGCTGATTGAGTATGACAA GCTGAGGAAGGACGACCCTGTCACCAACCTGAACAATGCCTTCGAAGTGGCTGA GAAATACCTCGACATCCCCAAGATGCTGGATGCAGAGGACATCGTGAACACGGC CCGGCCCGACGAGAAGGCCATAATGACCTATGTGTCCAGCTTCTACCATGCCTT TTCAGGAGCGCAGAAGGCTGAAACTGCCGCCAACCGGATCTGTAAGGTGCTGGC TGTCAACCAAGAGAACGAGCACCTGATGGAGGACTACGAGAAGCTGGCCAGCGA CCTCCTGGAGTGGATCCGGCGCACCATCCCCTGGCTGGAGGACCGTGTGCCCCA AAAGACTATCCAGGAGATGCAGCAGAAGCTGGAGGACTTCCGCGACTACCGGCG TGTGCACAAGCCGCCCAAGGTGCAGGAGAAGTGCCAGCTGGAGATCAACTTCAA CACGCTGCAGACCAAGCTGCGCCTCAGCAACCGGCCCGCCTTCATGCCCTCCGA GGGCAAGATGGTCTCGGACATCAACAATGGCTGGCAGCACTTGGAGCAGGCTGA	827	KLVSIGAEEIVDGNAKMTLGMIW TIILRFAIQDISVEETSAKEGLL LWCQRKTAPYKNVNVQNFHISWK DGLAFNALIHRHRPELIEYDKLR KDDPVTNLNNAFEVAEKYLDIPK MLDAEDIVNTARPDEKAIMTYVS SFYHAFSGAQKAETAANRICKVL AVNQENEHLMEDYEKLASDLLEW IRRTIPWLEDRVPQKTIQEMQQK LEDFRDYRRVHKPPKVQEKCQLE INFNTLQTKLRLSNRPAFMPSEG KMVSDINNGWQHLEQAEKGYEEW LLNEIRRLERLDHLAEKFRQKAS IHEAWTDGKEAMLKHRDYETATL SDIKALIRKHEAFESDLAAHQDR

				GAAGGGCTACGAGGAGTGGCTGCTGAATGAGATCCGCAGGCTGGAGCGGCTCGACCACCTGGCAGAGAAGTTCCGGCAGAAGGCCTCCATCCACGAGGCCTGGACTGACGGGAAGGAAGCCATGCTGAAGCACCGGGACTACGAGACGGCCACACTATCGGACATCAAAGCCCTCATTCGCAAGCACGAGGCCTTCGAGAGCGACCTGGCTGCGCACCAGGACCGCGTGGAGCAGATCGCCGCCATTGCCCAGGAGCTCAACGAGCTGGATTACTACGACTCCCACAATGTCAACACCCGGTG		VEQIAAIAQELNELDYYDSHNVNTR
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	prey6586	90	GTCCTGGGGAGGCGTCAGCATCCCCAACAGCCCCTTCAGGGTGAATGTGGGAGCTGGCAGCCACCCCAACAAGGTCAAAGTATACGGCCCCGGAGTAGCCAAGACAGGGCTCAAGGCCCACGAGCCCACCTACTTCACTGTGGACTGCGCCGAGGCTGGCCAGGGGACGTCAGCATCGGCATCAAGTGTGCCCCTGGAGTGGTAGGCCCCGCCGAAGCTGACATCGACTTCGACATCATCCGCAATGACAATGACACCTTCACGGTCAAGTACACGCCCCGGGGGGCTGGCAGCTACACCATTATGGTCCTCTTTGCTGACCAGGCCAC	828	SWGGVSIPNSPFRVNVGAGSHPNKVKVYGPGVAKTGLKAHEPTYFTVDCAEAGQGDVSIGIKCAPGVVGPAEADIDFDIIRNDNDTFTVKYTPRGAGSYTIMVLFADQA
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	prey97485	91	ATNGCCTNTGCTGNTCTNNATCCTTANCNTGNTNANCATGCTAGACNCNGNAACGATTNGNNGGCTNCTGCCGTGNNGCCAGGCCACTGACTGNTGATTGGTGCTCCTAATCNCTNCCCTGATNCTGNGGGNGGAGANGGNGGCTGTTAAGGANGANGAAGAAAGANGGTNNAANNTTNNANAGAANAAACCCTNNTCGNTTGTTTAANCNTNANNNNGNGTTTTTTTGCNGAGTGTGGGGGGGGGACCNTGGTGGGGGGGGGGGGGNGTGGGGGGGGNGGGGGTGGGCTGGCGNGNNGGNNNNGGC	829	XAXAXLXPXXXXHARXXNDXXAXAVXPGH*LXIGAPNXXPDXXGGXGGC*GXXRKXVXXXXEXTLXXCLXXXXXFFAECGGGTXVGGGGXWGGXGWAGXXXX
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	prey5847	92	GAAGCTGCAGGAACTTGAACAAGAGTATGGGGAACCCTTTCTGGCTGCCATGGAAAAGCTGCTTTTTGAGTACTTGTGTCAGCTGGAGAAAGCACTGCCTACACCGCAGGCACAGCAGCTTCAGGATGTGCTGAGTTGGATGCAGCCTGGAGTCTCTATCACCTCTTCTCTTGCCTGGAGACAATATGGTGTGGACATGGGGTGGCTGCTTCCAGAGTGCTCTGTTACTGACTCAGTGAACCTGGCTGAGCCCATGGAACAGAATCCTCCTCAGCAAC	830	KLQELEQEYGEPFLAAMEKLLFEYLCQLEKALPTPQAQQLQDVLSWMQPGVSITSSLAWRQYGVDMGWLLPECSVTDSVNLAEPMEQNPPQQ
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	prey1989	93	CCTCCTCATCAGCCTGTCCACCCTCATCTACAATGGTGCCCTGCCATGTCAGTGCAACCCTCAAGGTTCACTGAGTTCTGAGTGCAACCCTCATGGTGGTCAGTGCCTGTGCAAGCCTGGAGTGGTTGGGCGCCGCTGTGACCTCTGTGCCCCTGGCTACTATGGCTTTGGCCCCACAGGCTGTCAAGCCTGCCAGTGCAGCCACGAGGGGGCACTCAGCAGTCTCTGTGAAAAGACCAGTGGGCAATGTCTCTGTCGAACTGGTGCCTTTGGGCTTCGCTGTGACCGCTGCCAGCGTGGCCAGTGGGGATTCCCTAGCTGCCGGCCATGTGTCTGCAATGGGCATGCAGATGAGTGCAACACCCACACAGGCGCTTGCCTGGGCTGCCGTGATCACACAGGGGGTGAGCACTGTGAAAGGTGCATTGCTGGTTTCCACGGGGACCCACGGCTGCCATATGGGGGCCAGTGCCGGCCCTGTCCCTGTCCTGAAGGCCCTGGGAGCCAACGGCAC	831	LLISLSTLIYNGALPCQCNPQGSLSSECNPHGGQCLCKPGVVGRRCDLCAPGYYGFGPTGCQACQCSHEGALSSLCEKTSGQCLCRTGAFGLRCDRCQRGQWGFPSCRPCVCNGHADECNTHTGACLGCRDHTGGEHCERCIAGFHGDPRLPYGGQCRPCPCPEGPGSQRH
Human ADRB3_v2 (Human	2	prey700	94	ATGGGAATTGGTCTTTCTGCTCAAGGTGTGAACATGAATAGACTACCAGGTTGGGATAAGCATTCATATGGTTACCATGGGGATGATGGACATTCGTTTTGTTCTTCTGGAACTGGACAACCTTATGGACCAACTTTCACTACTGGTGATGTCATTGGCTGT	832	MGIGLSAQGVNMNRLPGWDKHSYGYHGDDGHSFCSSGTGQPYGPTFTTGDVIGCCVNLINNTCFYTKNG

ADRB3 AA348-409)				TGTGTTAATCTTATCAACAATACCTGCTTTTACACCAAGAATGGACATAGTTTAGGTATTGCTTTCACTGACCTACCGCCAAATTTGTATCCTACTGTGGGGCTTCAAACACCAGGAGAAGTGGTCGATGCCAATTTTGGGCAACATCCTTTCGTGTTTGATATAGAAGACTATATGCGGGAGTGGAGAACCAAAATCCAGGCACAGATAGATCGATTTCCTATCGGAGATCGAGAAGGAGAATGGCAGACCATGATACAAAAAATGGTTTCATCTTATTTAGTCCACCATGGGTACTGTGCCACAGCAGAGGCCTTTGCCAGATCTACAGACCAGACCGTTCTAGAAGAATTAGCTTCCATTAAGAATAGACAAAGAATTCAGAAATTGGTATTAGCAGGAAGAATGGGAGAAGCCATTGAAACAACAC		HSLGIAFTDLPPNLYPTVGLQTPGEVVDANFGQHPFVFDIEDYMREWRTKIQAQIDRFPIGDREGEWQTMIQKMVSSYLVHHGYCATAEAFARSTDQTVLEELASIKNRQRIQKLVLAGRMGEAIETT
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	prey4629	95	GGAAATCAAAGCCCAGCAGGACAAACTCAACACAAGGTGGAGCCAGTTCAGAGAACTGGTTGACAGGAAGAAGGATGCCCTCCTGTCTGCCCTGAGCATCCAGAACTACCACCTCGAGTGCAATGAAACCAAATCCTGGATTCGGGAAAAGACCAAGGTCATCGAGTCCACCCAGGACCTGGGCAATGACCTGGCTGGCGTCATGGCCCTGCAGCGCAAGCTGACCGGCATGGAGCGGGACTTGGTGGCCATTGAGGCAAAGCTGAGTGACCTGCAGAAGGAGGCGGAGAAGCTGGAGTCCGAGCACCCCGACCAGGCCCAGGCCATCCTGTCTCGGCTGGCCGAGATCAGCGACGTGTGGGAGGAGATGAAGACCACCCTGAAAAACCGAGAGGCCTCCCTGGGAGAGGCCAGCAAGCTGCAGCAGTTCCTACGGGACTTGGACGACTTCCAGTCCTGGCTCTCTAGGACCCAGACAGCGATCGCCTCGGAGGACATGCCAAACACCCTGACCGAGGCTGAGAAGCTGCTCACGCAGCACGAGAACATCAAGAATGAGATCGACAACTACGAGGAGGACTACCAGAAGATGAGGGACATGGGCGAGATGGTCACCCAGGGGCAGACCGATGCCCAGTACATGTTTCTGCGGCAGCGGCTGCAGGCCCTGGACACTGGATGGAACGAGCTCCACAAGATGTGGGAGAACAGACAAAATCTCCTATCCCAGTCACATGCCTACCAGCAGTTCCTCAGAGACACGAAGCAAGCCGAAGCCTTTCTTAACAACCAGGAGTATGTTCTGGCTCACACTGAAATGCCTACCACCTTGGAAGGAGCTGAAGCAGCAATTAAAAAGCAAGAGGACTTCATGACCACCATGGACGCCAATGAGGAGAAGATCAATGCTGTGGTGGAGACTGGCCGGAGGCTGGTGAGCGATGGGAACATCAACTCAGATCGCATCCAGGAGAAGGTGGACTCTATTGATGACAGACATAGGAAGAATCGTGAGACAGCCAGTGAACTTTTGATGAGGTTGAAGGACAACAGGGATCTACAGAAATTCCTGCAAGATTGTCAAGAGCTGTCTCTCTGGATCAATGAGAAGATGCTCACAGCCCAGGACATGTCTTACGATGAAGCCAGAAATCTGCACAGTAAATGGTTGAAGCATCAAGCATTTATGGCAGAACTTGCATCCAACAAAGAATGGC	833	EIKAQQDKLNTRWSQFRELVDRKKDALLSALSIQNYHLECNETKSWIREKTKVIESTQDLGNDLAGVMALQRKLTGMERDLVAIEAKLSDLQKEAEKLESEHPDQAQAILSRLAEISDVWEEMKTTLKNREASLGEASKLQQFLRDLDDFQSWLSRTQTAIASEDMPNTLTEAEKLLTQHENIKNEIDNYEEDYQKMRDMGEMVTQGQTDAQYMFLRQRLQALDTGWNELHKMWENRQNLLSQSHAYQQFLRDTKQAEAFLNNQEYVLAHTEMPTTLEGAEAAIKKQEDFMTTMDANEEKINAVVETGRRLVSDGNINSDRIQEKVDSIDDRHRKNRETASELLMRLKDNRDLQKFLQDCQELSLWINEKMLTAQDMSYDEARNLHSKWLKHQAFMAELASNKEW
Human ADRB3_v2 (Human ADRB3 AA348-409)	2	prey97498	96	GGCCTTTCATCTATCTTANTGCCANCCTNANAAAAGAAATAACAACANCATAGTTTTGGGAAATNTNTCTGAATAGGGAAGGTCTTAATACACTNTGAACANAAACATNTTCCCGGCGCATAATTGGNGNGGGCNGCNGAAGTNTNNACTGTTGTGGNAGGNTACGNTGTGTNNNTTGGGTGNGTNTATACNTGCATTTTGGATTTGNGNNGGCGGCNNGGTGGGCGTNGGGGTGGGCGGGTGNGGGGGGGTTGGTGGGGGCNGGGTGGGGGGNNGGGGGGCGGCGGNGAGGGTGNCNGNTGNGGGG	834	GLSSILXPXXXKK*QXHSFGKXX*IGKVLIHXEXKHXPGA*LXXAAEVXTVVXGYXVXXGXVYTCILDLXXRXGGRXGGRVXGGWWGXGGGXGGGGEGXXXG
Human ADRB3_v1	3	prey98837	97	TTGTCTTTACTTAAGCTTCTAAGACATTTTGGGGCAAAGGACCTTACAGATGGCGTCTGTTGAAAGTAACAGCAACGTGCCAGGGAGAAATGTGGGGGAAATCTCATC	835	LSLLKLLRHFGAKDLTDGVC*K*QQRAREKCGGNLIKFCHLKCVVQ

				AAATTCTGCCACCTCAAATGTGTTGTCCAGAAGTCAGTGTTATTCAGGGGGCCC TGTGAAACTTGACCACCAGCTTGCGCCATCAACACTCAGCCTTTATCCAGCCTG CTCTCAGCTTTTGTGTTTCTGTTAGAAACTCAGATAGGTAAGTATTTTTATTCA AGTAGACTACCT		KSVLFRGPCET*PPACAINTQPL SSLLSAFVFLLETQIGKYFYSSR LP
Human ADRB3_v1	3	prey98838	98	AGGAACCTATTGATCCTATTGAAGGAGACTGAATAGATTTTTCCTATGATTCTT CCTCAATTAACCATCCTTGCATTTGCAGAATATATTCCAAATGATCATGATGTT ACTATTTTTAAAATGTTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCTANCCTGGG TGACNGAGAGACTNCCTNTNGAAAAAATGGGNAACAAGNNGACAGAANTGTGTT CNTTTCATGCTAGGC	836	RNLLILLKETE*IFPMILPQLTI LAFAEYIPNDHDVTIFKMXXXXX XXXXXXXXXXXXXXXXXXXXXXX XPG*XRDXLXKKWXTXXQXCVXF MLG
Human ADRB3_v1	3	prey98841	99	AAGATGATTAGAAGATTATTGACAAAACCTGAATTTAAATCTTGTAGCACCCCA CCTGAACTTTATCTAAACGCATTATACCTTTCCACTTAAAATCAGTCAATGTGT AATGAGTGTGTCGTGCTTTAATTATATTTCTCCTCCAAACAGAGCTTTTGTGCT GCCTTGCACCAGGAACTCAGAGAATACTATCGATTGCTCTCTGTTTTACATTCT CAGGTAAATATTTTATTTTTATTTTTATTTCTTTATGATTTGAAGTGTTACNNA ATTGAAGCTNTATAGA	837	KMIRRLLTKPEFKSCSTPPELYL NALYLST*NQSMCNECVVL*LYF SSKQSFCAALHQELREYYRLLSV LHSQVNILFLFLFLYDLKCYXIE AX*
Human ADRB3_v1	3	prey98849	100	ATGGATTTCTCGGAGTCTGAAAAATTTATGGTTCTTCTCTGGAAGAATTTTATT TTAAAGAGGCGGCGATGTATTGCTTTAGTTGTGGAAATGGTCCTCACATTTCTG TTTAGTGCTGCGCTTTTGGCAACACGCTCTGTTATTACTATAAATAAGAACGGA CCTTTCGATTTTGCTGCTCAGCCTGTCGATGAAGTGCCTTTCTACATCACAGCT TCCTTAATTTCTCCTTCTCCTTTGGAATTGGCTTACGTGCCTTCCAGAAGTACT GTGGTTCAGGGTATTATTGAAAGAGTGAAAATGGATTTAAACCCTCAAATGAAA GGTTAG	838	MDFSESEKFMVLLWKNFILKRRR CIALVVEMVLTFLFSAALLATRS VITINKNGPFDFAAQPVDEVPFY ITASLISPSPLELAYVPSRSTVV QGIIERVKMDLNPQMKG*
Human ADRB3_v1	3	prey94623	101	CCTGGAGACAGCTGAAAATGTCAACAATGGCAACCCCTCTCCCCTGGAGGCCCT GCTGGCAGGCGCAGAGGGCTTCCCCCCCATGCTGGACATCCCACCTGATGCAGA TGACGAGACCATGGTTGAACTAGCCATTGCCCTGAGCCTGCAGCAGGACCAACA AGGCAGCAGCAGCAGTGCCCTGGGCCTGCAGAGCCTGGGACTGTCCGGCCAGGC ACCCAGCTCTTCCTCTCTGGACGCAGGAACCCTCTCTGACACCACAGCATCAGC TCCAGCCTCAGACGACGAGGGCAGTACAGCAGCGACAGATGGTTCTACCCTTCG GACCTCTCCTGCTGACCACGGTGGTAGTGTGGGCTCGGAGAGCGGGGGCAGTGC AGTGGACTCAGTGGCTGGCGAGCACAGTGTATCTGGCCGGAGCAGTGCTTATGG CGATGCTACAGCTGAGGGGCATCCGGCTGGACCAGGAAGTGTCAGCTCAAGCAC TGGAGCCATCAGCACCACCACTGGGCACCAGGAGGGAGATGGCTCCGAGGGAGA AGGAGAAGGAGAAACTGAAGGAGATGTCCACACTAGCAACAGGCTGCACATGGT CCGTCTAATGCTGTTGGAGAGATTACTGCAGACCCTGCCTCAATTACGAAACGT TGGCGGTGTCCGGGCCATCCCATACATGCAGGTCATTCTAATGCTCACTACAGA TCTGGATGGAGAAGATGAGAAAGACAAGGGGGCCCTAGACAACCTGCTCTCCCA GCTTATTGCTGAGTTGGGTATGGATAAAAAGGATGTCTCCAAGAAGAATGAGCG CAGCGCCCTGAATGAAGTCCATCTGGTAGTAATGAGACTCCTGAGTGTCTTCAT	839	LETAENVNNGNPSPLEALLAGAE GFPPMLDIPPDADDETMVELAIA LSLQQDQQGSSSSALGLQSLGLS GQAPSSSSLDAGTLSDTTASAPA SDDEGSTAATDGSTLRTSPADHG GSVGSESGGSAVDSVAGEHSVSG RSSAYGDATAEGHPAGPGSVSSS TGAISTTTGHQEGDGSEGEGEGE TEGDVHTSNRLHMVRLMLLERLL QTLPQLRNVGGVRAIPYMQVILM LTTDLDGEDEKDKGALDNLLSQL IAELGMDKKDVSKKNERSALNEV HLVVMRLLSVFMSRTKSGSKSSI CESSSLISSATAAALLSSGAVDY CLHVLKSLLEYWKSQQNDEEPVA TSQLLKPHTTSSPPDMSPFFLRQ

				GTCCCGCACCAAATCTGGATCCAAGTCTTCCATATGTGAGTCATCTTCCCTCAT CTCCAGTGCCACAGCAGCAGCTCTACTGAGCTCTGGGGCTGTGGACTACTGCCT GCACGTGCTCAAATCACTGCTGGAATATTGGAAGAGCCAACAGAATGACGAGGA GCCTGTGGCTACCAGCCAGTTGCTGAAACCACATACTACCTCCTCCCCACCTGA CATGAGCCCATTCTTTCTCCGCCAGTATGTGAAGGGTCATGCTGCTGATGTGTT TGAGGCCTATACTCAGCTTCTAACAGAAATGGTACTGAGGCTTCCTTACCAAAT CAAAAAGATTACTGACACCAATTCTCGAATCCCACCTCCTGTCTTTGACCACTC GTGGTTTTACTTTCTCTCCGAGTACCTCATGATCCAGCAGACTCCATTTGTGCG CCGTCAAGTCCGCAAACTTCTGCTCTTCATCTGTGGATCCAAAGAGAAGTACCG CCAGCTCCGGGATTTGCACACCCTGGACTCTCACGTGCGTGGGATCAAGAAGCT GCTAGAAGAGCAGGGGATATTCCTCCGGGCAAGTGTGGTTACAGCCAGCTCAGG CTCCGCCTTGCAATATGACACACTCATCAGCCTGATGGAGCACCTGAAAGCCTG TGCAGAGATTGCCGCCCAGCGAACCATCAACTGGCAGAAATTCTGCATCAAAGA TGACTCCGTCCTGTACTTCCTCCTCCAAGTCAGTTTCCTTGTGGATGAGGGCGT GTCCCCAGTGCTGCTGCAACTGCTCTCCTGTGCTCTGTGCGGCAGCAAGGTGCT CGCTGCACTGGCAGCCTCTTCGGGATCCTCCAGTGCTTCTTCCTCCTCAGCCCC TGTGGCTGCCAGTTCTGGACAAGCCACAACACAGTCCAAGTCTTCCACTAAAAA GAGCAAGAAAGAAGAAAAAGAAAAGGAGAAAGATGGTGAGACCTCTGGCAGCCA GGAGGACCAGCTGTGCACAGCTCTGGTGAACCAGCTGAACAAATTTGCCGATAA GGAAACCCTGATCCAGTTCCTGCGTTGTTTCCTGTTAGAGTCCAATTCTTCCTC GGTGCGCTGGCAGGCCCACTGTCTGACACTGCACATCTACAGAAATTCCAGCAA ATCTCAACAGGAGCTCCTGCTAGATCTGATGTGGTCCATCTGGCCAGAACTCCC AGCCTATGGTCGTAAGGCTGCCCAGTTTGTGGACCTACTAGGATATTTCTCCCT GAAAACTCCACAAACAGAGAAGAAGTTGAAGGAGTATTCACAGAAGGCTGTGGA GATTCTGCGGACTCAAAACCATATTCTTACCAACCACCCCAACTCGAACATTTA TAACACTTTGTCTGGCTTAGTGGAGTTTGATGGCTATTACCTGGAGAGCGATCC CTGCCTGGTGTGTAATAACCCGGAAGTACCGTTCTGTTATATCAAGCTGTCTTC CATTAAAGTGGACACGCGGTACACCACCACCCAGCAGGTTGTGAAGCTCATTGG CAGTCACACCATCAGCAAAGTGACAGTGAAAATCGGGGATCTGAAACGGACCAA GATGGTGCGGACCATCAACCTGTATTATAACAACCGAACCGTGCAGGCCATCGT GGAGTTGAAAAACAAGCCAGCTCGCTGGCACAAAGCCAAGAAGGTTCAGCTGAC CCCTGGACAGACAGAGGTGAAGATTGACCTGCCGTTGCCCATTGTGGCCTCCAA TCTGATGATTGAGTTTGCAGACTTCTATGAAAACTACCAGGCCTCCACAGAGAC CCTGCAGTGCCCTCGCTGTAGTGCCTCGGTCCCTGCCAACCCAGGAGTCTGTGG CAACTGTGGAGAGAATGTGTACCAGTGTCACAAATGCAGATCCATCAACTACGA TGAAAAGGATCCCTTCCTCTGCAATGCCTGTGGCTTCTGTAAATATGCCCGCTT CGACTTCATGCTCTATGCCAAGCCTTGCTGTGCAGTGGATCCCATTGAGAATGA AGAAGACCGGAAGAAGGCTGTATCCAACATCAATACACTTTTGGACAAAGCTGA TCGAGTGTATCATCAGCTGATGGGACACCGGCCACAGCTGGAGAACCTGCTCTG		YVKGHAADVFEAYTQLLTEMVLR LPYQIKKITDTNSRIPPPVFDHS WFYFLSEYLMIQQTPFVRRQVRK LLLFICGSKEKYRQLRDLHTLDS HVRGIKKLLEEQGIFLRASVVTA SSGSALQYDTLISLMEHLKACAE IAAQRTINWQKFCIKDDSVLYFL LQVSFLVDEGVSPVLLQLLSCAL CGSKVLAALAASSGSSSASSSSA PVAASSGQATTQSKSSTKKSKKE EKEKEKDGETSGSQEDQLCTALV NQLNKFADKETLIQFLRCFLLES NSSSVRWQAHCLTLHIYRNSSKS QQELLLDLMWSIWPELPAYGRKA AQFVDLLGYFSLKTPQTEKKLKE YSQKAVEILRTQNHILTNHPNSN IYNTLSGLVEFDGYYLESDPCLV CNNPEVPFCYIKLSSIKVDTRYT TTQQVVKLIGSHTISKVTVKIGD LKRTKMVRTINLYYNNRTVQAIV ELKNKPARWHKAKKVQLTPGQTE VKIDLPLPIVASNLMIEFADFYE NYQASTETLQCPRCSASVPANPG VCGNCGENVYQCHKCRSINYDEK DPFLCNACGFCKYARFDFMLYAK PCCAVDPIENEEDRKKAVSNINT LLDKADRVYHQLMGHRPQLENLL CKVNEAAPEKPQDDSGTAGGISS TSASVNRYILQLAQEYCGDCKNS FDELSKIIQKVFASRKELLEYDL QQREAATKSSRTSVQPTFTASQY RALSVLGCGHTSSTKCYGCASAV TEHCITLLRALATNPALRHILVS QGLIRELFDYNLRRGAAAMREEV RQLMCLLTRDNPEATQQMNDLII GKVSTALKSHWANPDLASSLQYE MLLLTDSISKEDSCWELRLRCAL SLFLMAVNIKTPVVVENITLMCL RILQKLIKPPAPTSKKNKDVPVE

				CAAAGTGAATGAGGCAGCTCCAGAAAAGCCACAGGATGACTCAGGAACAGCAGG		ALTTVKPYCNEIHAQAQLWLKRD
				GGGCATCAGCTCCACTTCTGCCAGTGTGAATCGTTACATCCTGCAGTTGGCTCA		PKASYDAWKKCLPIRGIDGNGKA
				GGAGTATTGTGGAGACTGCAAGAACTCTTTTGATGAACTCTCCAAAATCATCCA		PSKSELRHLYLTEKYVWRWKQFL
				GAAAGTCTTTGCTTCGCGCAAAGAGTTGTTGGAATATGACCTACAGCAGAGGGA		SRRGKRTSPLDLKLGHNNWLRQV
				AGCAGCCACTAAATCATCCCGGACCTCCGTGCAGCCCACATTCACTGCCAGCCA		LFTPATQAARQAACTIVEALATI
				GTACCGTGCCTTATCCGTCCTGGGCTGTGGCCACACATCCTCCACCAAGTGCTA		PSRKQQVLDLLTSYLDELSIAGE
				TGGCTGCGCCTCGGCTGTCACAGAACATTGTATCACACTACTTCGGGCCCTGGC		CAAEYLALYQKLITSAHWKVYLA
				CACCAACCCAGCCTTGAGGCACATCCTTGTCTCCCAGGGCCTTATCCGGGAGCT		ARGVLPYVGNLITKEIARLLALE
				CTTTGATTATAATCTTCGCCGAGGGGCTGCGGCCATGCGGGAGGAGGTCCGCCA		EATLSTDLQQGYALKSLTGLLSS
				GCTCATGTGCCTCCTAACTCGAGACAACCCAGAAGCCACCCAACAGATGAATGA		FVEVESIKRHFKSRLVGTVLNGY
				CCTGATTATTGGCAAGGTCTCCACAGCCCTGAAGAGCCACTGGGCCAACCCCGA		LCLRKLVVQRTKLIDETQDMLLE
				TCTGGCAAGTAGCCTGCAGTATGAAATGCTGCTGCTGACGGATTCTATCTCCAA		MLEDMTTGTESETKAFMAVCIET
				GGAGGACAGCTGCTGGGAGCTCCGGTTACGCTGTGCTCTCAGCCTTTTCCTCAT		AKRYNLDDYRTPVFIFERLCSII
				GGCTGTGAACATTAAGACTCCTGTGGTGGTTGAAAACATTACCCTCATGTGCCT		YPEENEVTEFFVTLEKDPQQEDF
				GAGGATCTTGCAGAAGCTGATAAAACCACCTGCTCCCACTAGCAAGAAGAACAA		LQGRMPGNPYSSNEPGIGPLMRD
				GGATGTCCCCGTCGAGGCCCTCACCACGGTGAAGCCATACTGCAATGAGATCCA		IKNKICQDCDLVALLEDDSGMEL
				TGCCCAGGCTCAACTGTGGCTCAAGAGAGACCCCAAGGCATCCTATGATGCCTG		LVNNKIISLDLPVAEVYKKVWCT
				GAAGAAGTGTCTTCCTATCAGAGGGATAGATGGCAATGGAAAGCCCCCAGCAA		TNEGEPMRIVYRMRGLLGDATEE
				ATCAGAGCTCCGCCATCTCTATTTGACTGAGAAGTATGTGTGGAGGTGGAAACA		FIESLDSTTDEEEDEEEVYKMAG
				GTTCCTGAGTCGTCGGGGGAAGAGGACCTCCCCCTTGGATCTCAAACTGGGGCA		VMAQCGGLECMLNRLAGIRDFKQ
				TAACAACTGGCTGCGACAAGTGCTTTTCACTCCAGCAACGCAGGCCGCACGGCA		GRHLLTVLLKLFSYCVKVKVNRQ
				GGCAGCCTGTACCATTGTGGAAGCTCTAGCCACCATTCCCAGCCGCAAGCAGCA		QLVKLEMNTLNVMLGTLNLALVA
				GGTCCTGGACCTGCTTACCAGTTACCTGGATGAGCTGAGCATAGCTGGGGAGTG		EQESKDSGGAAVAEQVLSIMEII
				TGCAGCTGAGTACCTGGCTCTCTACCAGAAGCTCATCACTTCTGCGCACTGGAA		LDESNAEPLSEDKGNLLLTGDKD
				AGTCTACTTGGCAGCTCGGGGAGTCCTACCCTATGTGGGCAACCTCATCACCAA		QLVMLLDQINSTFVRSNPSVLQG
				GGAAATAGCTCGTCTGCTGGCCCTGGAGGAGGCTACCCTGAGTACCGATCTGCA		LLRIIPYLSFGEVEKMQILVERF
				GCAGGGTTATGCCCTTAAAAGTCTCACAGGCCTTCTCTCCTCCTTTGTTGAGGT		KPYCNFDKYDEDHSGDDKVFLDC
				GGAATCCATCAAAAGACATTTTAAAAGTCGCTTGGTGGGTACTGTGCTGAATGG		FCKIAAGIKNNSNGHQLKDLILQ
				ATACCTGTGCTTGCGGAAGCTGGTGGTGCAGAGGACCAAGCTGATCGATGAGAC		KGITQNALDYMKKHIPSAKNLDA
				GCAGGACATGCTGCTGGAGATGCTGGAGGACATGACCACAGGTACAGAATCAGA		DIWKKFLSRPALPFILRLLRGLA
				AACCAAGGCCTTCATGGCTGTGTGCATTGAGACAGCCAAGCGCTACAATCTGGA		IQHPGTQVLIGTDSIPNLHKLEQ
				TGACTACCGGACCCCGGTGTTCATCTTCGAGAGGCTCTGCAGCATCATTTATCC		VSSDEGIGTLAENLLEALREHPD
				TGAGGAGAATGAAGTCACTGAGTTCTTTGTGACCCTGGAGAAGGATCCCCAACA		VNKKIDAARRETRAEKKRMAMAM
				AGAAGACTTCTTACAGGGCAGGATGCCTGGGAACCCGTATAGCAGCAATGAGCC		RQKALGTLGMTTNEKGQVVTKTA
				AGGCATCGGGCCGCTGATGAGGGATATAAAGAACAAGATTTGCCAGGACTGTGA		LLKQMEELIEEPGLTCCICREGY
				CTTAGTGGCCCTCCTGGAAGATGACAGTGGCATGGAGCTTCTAGTGAACAATAA		KFQPTKVLGIYTFTKRVALEEME
				AATCATTAGTTTGGACCTTCCTGTGGCTGAAGTTTACAAGAAAGTCTGGTGTAC		NKPRKQQGYSTVSHFNIVHYDCH
				CACGAATGAGGGAGAGCCCATGAGGATTGTTTATCGTATGCGGGGGCTGCTGGG		LAAVRLARGREEWESAALQNANT
				CGATGCCACAGAGGAGTTCATTGAGTCCCTGGACTCTACTACAGATGAAGAAGA		KCNGLLPVWGPHVPESAFATCLA

				AGATGAAGAAGAAGTGTATAAAATGGCTGGTGTGATGGCCCAGTGTGGGGGCCT GGAATGCATGCTTAACAGACTCGCAGGGATCAGAGATTTCAAGCAGGGACGCCA CCTTCTAACAGTGCTACTGAAATTGTTCAGTTACTGCGTGAAGGTGAAAGTCAA CCGGCAGCAACTGGTCAAACTGGAAATGAACACCTTGAACGTCATGCTGGGGAC CCTAAACCTGGCCCTTGTAGCTGAACAAGAAAGCAAGGACAGTGGGGGTGCAGC TGTGGCTGAGCAGGTGCTTAGCATCATGGAGATCATTCTAGATGAGTCCAATGC TGAGCCCCTGAGTGAGGACAAGGGCAACCTCCTCCTGACAGGTGACAAGGATCA ACTGGTGATGCTCTTGGACCAGATCAACAGCACCTTTGTTCGCTCCAACCCCAG TGTGCTCCAGGGCCTGCTTCGCATCATCCCGTACCTTTCCTTTGGAGAGGTGGA GAAAATGCAGATCTTGGTGGAGCGATTCAAACCATACTGCAACTTTGATAAATA TGATGAAGATCACAGTGGTGATGATAAAGTCTTCCTGGACTGCTTCTGTAAAAT AGCTGCTGGCATCAAGAACAACAGCAATGGGCACCAGCTGAAGGATCTGATTCT CCAGAAGGGGATCACCCAGAATGCACTTGACTACATGAAAAAGCACATCCCTAG CGCCAAGAATTTGGATGCCGACATCTGGAAAAAGTTTTTGTCTCGCCCAGCCTT GCCATTTATCCTAAGGCTGCTTCGGGGCCTGGCCATCCAGCACCCTGGCACCCA GGTTCTGATTGGAACTGATTCCATCCCGAACCTGCATAAGCTGGAGCAGGTGTC CAGTGATGAGGGCATTGGGACCTTGGCAGAGAACCTGCTGGAAGCCCTGCGGGA ACACCCTGACGTAAACAAGAAGATTGACGCAGCCCGCAGGGAGACCCGGGCAGA GAAGAAACGCATGGCCATGGCAATGAGGCAGAAGGCCCTGGGCACCCTGGGCAT GACGACAAATGAAAAGGGCCAGGTCGTGACCAAGACAGCACTCCTGAAGCAGAT GGAAGAGCTGATCGAGGAGCCTGGCCTCACGTGCTGCATCTGCAGGGAGGGATA CAAGTTCCAGCCCACAAAGGTCCTGGGCATTTATACCTTCACGAAGCGGGTAGC CTTGGAGGAGATGGAGAATAAGCCCCGGAAACAGCAGGGCTACAGCACCGTGTC CCACTTCAACATTGTGCACTACGACTGCCATCTGGCTGCCGTCAGGTTGGCTCG AGGCCGGGAAGAGTGGGAGAGTGCCGCCCTGCAGAATGCCAACACCAAGTGCAA CGGGCTCCTTCCGGTCTGGGGACCTCATGTCCCTGAATCAGCTTTTGCCACTTG CTTGGCAAGACACAACACTTACCTCCAGGAATGTACAGGCCAGCGGGAGCCCAC GTATCAGCTCAACATCCATGACATCAAACTGCTCTTCCTGCGCTTCGCCATGGA GCAGTCGTTCAGCGCAGACACTGGCGGGGGCGGCCGGGAGAGCAACATCCACCT GATCCCGTACATCATTCACACTGTGCTTTACGTCCTGAACACAACCCGAGCAAC TTCCCGAGAAGAGAAGAACCTCCAAGGCTTTCTGGAACAGCCCAAGGAGAAGTG GGTGGAGAGTGCCTTTGAAGTGGACGGGCCCTACTATTTCACAGTCTTGGCCCT TCACATCCTGCCCCCTGAGCAGTGGAGAGCCACACGTGTGGAAATCTTGCGGAG GCTGTTGGTGACCTCGCAGGCTCGGGCAGTGGCTCCAGGTGGAGCCACCAGGCT GACAGATAAGGCAGTGAAGGACTATTCCGCTTACCGTTCTTCCCTTCTCTTTTG GGCCCTCGTCGATCTCATTTACAACATGTTTAAGAAGGTGCCTACCAGTAACAC AGAGGGAGGCTGGTCCTGCTCTCTCGCTGAGTACATCCGCCACAACGACATGCC CATCTACGAAGCTGCCGACAAAGCCCTGAAAACCTTCCAGGAGGAGTTCATGCC AGTGGAGACCTTCTCAGAGTTCCTCGATGTGGCCGGTCTTTTATCAGAAATCAC		RHNTYLQECTGQREPTYQLNIHD IKLLFLRFAMEQSFSADTGGGGR ESNIHLIPYIIHTVLYVLNTTRA TSREEKNLQGFLEQPKEKWVESA FEVDGPYYFTVLALHILPPEQWR ATRVEILRRLLVTSQARAVAPGG ATRLTDKAVKDYSAYRSSLLFWA LVDLIYNMFKKVPTSNTEGGWSC SLAEYIRHNDMPIYEAADKALKT FQEEFMPVETFSEFLDVAGLLSE ITDPESFLKDLLNSVP*

				CGATCCAGAGAGCTTCCTGAAGGACCTGTTGAACTCAGTCCCCTGA		
Human ADRB3_v1	3	prey98920	102	AGAGAGCTATCCAAGTTGATCCAAATTACGCTTATGCCTATACTCTATTAGGGCATGAGTTTGTCTTAACTGAAGAATTGGACAAAGCATTAGCTTGTTTTCGAAATGCTATCAGAGTCAATCCTAGACATTATAATGCATGGTAAGTGGTAATGAAGTACAAAGACAAAGTCGTATTGATGGTGCTGGTACTTACTAATTTTTCTTGTTAGATAGCTCTTTATTATCATGAATTTGGTTACTTATACTTAGGGATGGTACATACTGGNGANTANCTTNTAC	840	RELSKLIQITLMPILY*GMSLS*LKNWTKH*LVFEMLSESILDIIMHGKW**STKTKSY*WCWYLLIFLVR*LFIIMNLVTYT*GWYILXXXXY
Human ADRB3_v1	3	prey98852	103	AGAGAGATTCTAAGATTGATTCACTGACGGAATCTATTGCACAACTTGAGAAAGATGTCAGGTAAACCATCTACAAATCTTTTATTTGAATAATAAAGACATTGTTACCATATTGCTGCTGTAGGTGAATTTGGGTTGTAANTCNTGAACACAAGATTTAANTNGTGAGNGTGTNTTANNTGTGGTGAGTNTTNGNCTTTTCTTNGGAAGGGCTGGGGNNNCNTGGGCNTGGGGGGTGTTCGCNTTGGGCGNTGGGGNTGNGCGNTGGGGGTGTACGCGTGGGGGNGTGGCCGNGTGCCNGCCCCTC	841	REILRLIH*RNLLHNLRKMSGKPSTNLLFE**RHCYHIAAVGEFGL*XXNTRFXX*XCXXCGEXXXFLXKGWGXXGXGGVRXGRWGXAXGVYAWGXGRVPAP
Human ADRB3_v1	3	prey98854	104	AGGATTGGTACTGTGTCATTTATATCCTTATGTACTTCCCCTCCCTTTGTATTCATTTGAAGCATAACCGAGACATCATATCATGTCATCTGTTAATATTTCAGTAAATACTCTAAAGGATAAGGACTTTAAAAAAAAAAAANAACCNTAGTNCNGNGGNNNTATNTNAAAANNCCNTANTTTTTANCNTCNTCAANTNTCAANTTACCNTTNAANTTNCCANTTTTANCNCCCNCCCTAAANGGGANTTTNTTNANTCNGANAAAACGNGTTTNNAAAAAG	842	RIGTVSFISLCTSPPFVFI*SITETSYHVIC*YFSKYSKG*GL*KKKXTXVXXXYXKXPXFFXXXXXQXTXXXXXFXXXPKXXFXXSXKTXXXK
Human ADRB3_v1	3	prey98858	105	TCTTATACATTATCCTTTTTTGATTCAGACTCTTTCAGAAAAGATTCATTAAGATTCACTTTGACCTAAAGTAGCCCCTAGAGGTGTAGCTTGATATCTAGGTTGTTNCCCAGTCCAGAGTTNTACTNTGTGCTNAACTTTNCNTTTTTTNAGCTNNAGGGGTGTGGAAAAGGGNGCTGGGTTGGGGCGTGGGCTGGGGTTGTGCTGGGCGGTGGGGTGTGTGGGGGGTGNGCGNGTGGGTGGGGCGGGGGTGGGTGGGTGGGGGTGGTGGGTGGGGGGGTGGGGGGTGGGGGGGATGGTGGNGGGGGGNGG	843	SYTLSFFDSDSFRKDSLRFTLT*SSP*RCSLISRLXPSPEXYXVLNFXFFXLXGCGKGXWVGAWAGVVLGGGVCGGXAXGWGGGGWVGVVGGGVGGGGDGGGGX
Human ADRB3_v1	3	prey98863	106	GTTTGTATATTAAGTGTGCTCAATGAACAGAACTGTAATCTAACTTCACAAAATTAGATTTTAAATACATATAAACATATGTACACATATACACTACATAAGTAGACCATGTGTGCATTTCCTATAAAATGAATGATATTCATTNATTNATGTAAGAAATATTTATTGTNCACCCACTATGTGCCAGGCACTATTGTNGACTTGGNGACAAGNCGGNAAAGNATTGGTGGNCTGAANATTTNTTTATGGGGATGNATGCGGGGNANGAAACAATTTGTGCCTTTTGTCATG	844	VCILSVLNEQNCNLTSQN*ILNTYKHMYTYTLHK*TMCAFPIK*MIFIXXCKKYLLXTHYVPGTIVDLXTXRXXIGGLXIXLWGXMRGXKQFVPFVM
Human ADRB3_v1	3	prey49299	107	GGGAAAACTCAGCAACCAATGTATGCAGTCCATCTTTGGGAAACATCTCTAATGTCGATACAAATGGGGAACATTTAGAAAGTTATGAGGCTGAGATCTCCACTAGACCATGCCTTGCATTAGCTCCAGATAGCCCAGATAATGATCTCAGAGCTGGTCAGTTTGGAATTTCTGCCAGAAAGCCATTCACCACTCTGGGTGAGGTGGCTCCAGTATGGGTACCGGATTCTCAGGCTCCAAATTGCATGAAATGTGAAGCCAGGTTTACATTCACCAAAAGGAGGCATCACTGCAGAGCATGTGGGAAGGTTTTCTGTGCTTCCTGCTGTAGCCTGAAATGTAAACTGTTATACATGGACAGAAAGGAAGCTAGAGTGT	845	ENSATNVCSPSLGNISNVDTNGEHLESYEAEISTRPCLALAPDSPDNDLRAGQFGISARKPFTTLGEVAPVWVPDSQAPNCMKCEARFTFTKRRHHCRACGKVFCASCCSLKCKLLYMDRKEARVCVICHSVLMNVAQPREQRRVWFADGILPNGEVADAA

				GTGTAATCTGCCATTCAGTGCTAATGAATGTGGCTCAGCCCAGAGAGCAGAGGC GAGTTTGGTTTGCTGATGGGATCTTGCCCAATGGAGAAGTTGCTGATGCAGCCA AATTAACAATGAATGGAACTTCCTCTGCAGGAACCCTGGCTGTGTCACACGACC CAGTCAAGCCAGTAACTACCAGTCCTCTACCAGCAGAGACGGATATTTGTCTAT TCTCTGGGAGTATAACTCAGGTTGGAAGTCCTGTTGGAAGTGCAATGAATCTTA TTCCTGAAGATGGCCTTCCTCCCATTCTCATCTCCACTGGTGTAAAAGGAGACT ATGCTGTGGAAGAGAAACCATCACAGATTTCAGTAATGCAGCAGTTGGAGGATG GTGGCCCTGACCCACTTGTATTTGTTTTAAATGCAAATTTGTTGTCAATGGTTA AAATTGTAAATTATGTGAACAGGAAGTGCTGGTGTTTCACAACCAAGGGAATGC ATGCAGTGGGTCAGTCTGAGATAG		KLTMNGTSSAGTLAVSHDPVKPV TTSPLPAETDICLFSGSITQVGS PVGSAMNLIPEDGLPPILISTGV KGDYAVEEKPSQISVMQQLEDGG PDPLVFVLNANLLSMVKIVNYVN RKCWCFTTKGMHAVGQSEI
Human ADRB3_v1	3	prey98869	108	NGTGGACTGGTAAATGGTAATGCTGGATTTATNNACCNGGANNTCTCCCNAGTA ANGTGANANTCTGAATATTTNACAGGTCCATAGCNGCATTACTTGAGGATTATG GGGCTTGCAGATTTGGTTGATTACAACCNCTATTCCACTNNTNNNNNTATGNT TGGGTAGTGNCTTNTNCTCNTTCACAANNTCGAGGANCAACACTACCATCNANT GGATTTACCTATAACTNCAGNACTCAGACCTNTNGCGATTATCTCTGCAGGTTN ACAGGGAATTAGGAATCAGNC	846	XGLVNGNAGFXXXXXSXVX*XSE YXTGP*XHYLRIMGLADLVDYNX YFHXXXYXWVVXXXXSQXRGXTL PSXGFTYNXXTQTXXDYLCRXTG N*ESX
Human ADRB3_v1	3	prey98871	109	AGAACTATGATGAAATATTTTGAAAGCAGTGGGCACATTTTTAAAGATTTTTTT TGGAGAACTTTATGAGGCTGTATGTATAATTCCTATATGTAATTTTATAGGAAT TCTTAACTGAAAGTAGTTATCAACTGCTACTTATNAGGAGCAGTGTTATTAGGG ATTTTAAGNTAGGGGTGTGGAAGNCTTTGTGACGGGGNGGGGNTATGNANNCTN NCCNNCNNGGNNGNNNNNAATNTGNNCNACNNGNNANGGCGAGNCGCCNNGNGN GTGNNTNANNCNGGNGNCANAT	847	RTMMKYFESSGHIFKDFFWRTL* GCMYNSYM*FYRNS*LKVVINCY LXGAVLLGILX*GCGXLCDGXGX XXLXXXXXXNXXXXXXRXAXXVX XXGXX
Human ADRB3_v1	3	prey98873	110	TGCCTGCCTCTTAGNAAGTGATCCCAAGGATTCTACCCTGTGACTTTCTTCCTT TAACTACTCTTTTTTTTTTATTTCAATAGTTTTGGGGAATGGGNGGTTTTGGG TTACATGGATAACTTNTTTAGTGGNGATTTCTGAAATTTTGATGCNCCCNTCAC CTGANCTGTGNAAACTGTNCCNNATGNGGGGGGNGTTTNNTNNCTGNCNNGNNT TNGTGNNCCNNTTTGCCTGNNGGNNGNGCGNGGGGNGNGGGGGGGNTGGTTGGN GGGTCNGGGGGTGCTNGCCCGTNNNGNNGGGNNGGNNNTNNCNGGNGGGNGNNC CCCGNC	848	CLPLXK*SQGFYPVTFFL*LLFF FYFNSFWGMGGFGLHG*LX*WXF LKF*CXXHLXCXNCXXXGGXXXX XXXXXXXLPXGXAXGXGGXVGGS GGAXPXXXXGXXXXXXPX
Human ADRB3_v1	3	prey98885	111	CTATCTTTGCTCAAATTGTTGAAGGATGGTGATTTGTTTCATGGTTTTTGTATT TGAGTCTAATGCACGTTCTAACATGATAGAGGCAATGCATTATTGTGTAGCCAC GGTTTTCTGGAAAAGTTGATATTTTAGGAATTGTATTTCAGATCTTAAATAAAA TTTGTTTCTAAATTTGAAAGCAAGTAATTTGTANGTGTGCCTTTNATGTTACTG GTTGGTATTCTGGNTNTNNGGGAAGTNNNGGTGGGCTTNTNNNGGNGTNNNNNA NCTNNTGNCNCCCC	849	LSLLKLLKDGDLFHGFCI*V*CT F*HDRGNALLCSHGFLEKLIF*E LYFRS*IKFVSKFESK*FVXVPX MLLVGILXXXEVXVGXXXXXXX XX
Human ADRB3_v1	3	prey98887	112	ATGGCTTTGCTTTCGCTTTTAGGTGGGGAAAAAGGAGGGGCAGCTGGATGGGCA GAAAAGTAACTCAAAAGCAAGTGTCTCTACCACCAGGACATCACTGAAACACAA AATACAAAGCCCATCCCGATTCAGGGTGGCATTCTGTACTACGACAGTGTCACG	850	MALLSLLGGEKGGAAGWAEK*LK SKCLYHQDITETQNTKPIPIQGG ILYYDSVTKKVLSASRAADNGCS

				AAGAAAGTTCTAAGTGCCTCTCGGGCAGCAGACAATGGCTGCAGTCACCAGGCACTTTCACTAACAAAACTCATTATCATGTCTAGAAATTTTAGGAGTAACATTTTCACAATATCACAAAGGGGCC		HQALSLTKLIIMSRNFRSNIFTISQRG
Human ADRB3_v1	3	prey700	113	ATGGGAATTGGTCTTTCTGCTCAAGGTGTGAACATGAATAGACTACCAGGTTGGGATAAGCATTCATATGGTTACCATGGGGATGATGGACATTCGTTTTGTTCTTCTGGAACTGGACAACCTTATGGACCAACTTTCACTACTGGTGATGTCATTGGCTGTTGTGTTAATCTTATCAACAATACCTGCTTTTACACCAAGAATGGACATAGTTTAGGTATTGCTTTCACTGACCTACCGCCAAATTTGTATCCTACTGTGGGGCTTCAAACACCAGGAGAAGTGGTCGATGCCAATTTTGGGCAACATCCTTTCGTGTTTGATATAGAAGACTATATGCGGGAGTGGAGAACCAAAATCCAGGCACAGATAGATCGATTTCCTATCGGAGATCGAGAAGGAGAATGGCAGACCATGATACAAAAAATGGTTTCATCTTATTTAGTCCACCATGGGTACTGTGCCACAGCAGAGGCCTTTGCCAGATCTACAGACCAGACCGTTCTAGAAGAATTAGCTTCCATTAAGAATAGACAAAGAATTCAGAAATTGGTATTAGCAGGAAGAATGGGAGAAGCCATTGAAACAACAC	851	MGIGLSAQGVNMNRLPGWDKHSYGYHGDDGHSFCSSGTGQPYGPTFTTGDVIGCCVNLINNTCFYTKNGHSLGIAFTDLPPNLYPTVGLQTPGEVVDANFGQHPFVFDIEDYMREWRTKIQAQIDRFPIGDREGEWQTMIQKMVSSYLVHHGYCATAEAFARSTDQTVLEELASIKNRQRIQKLVLAGRMGEAIETT
Human ADRB3_v1	3	prey98888	114	AACAGAATAAATAAATGCTTAGGAATTGAATGTTTATTTCCCAGAAGCTACTTTGTATCCTTTTGATAATCATTTTAAATTCTAATTTTTTTAAAGTGGAAAACACAGATAGGAAACTGTGTAATAAACACATTTATTCAACAAAGGCCTCTAATTATTTATTTATTATTGATACATTTTAATTCATGAAAGAAGAAATATTTTTACTAATATTTCTTGCAGCCAAAAATTTGTTATTGTTTGTGCATTTCTATAGGAAAGTTTGGAATTTTTTTTTTGAGGTGGGAAGTAATTGGTTTTTTAAGAAGAAATGTCCCTTTAACAGGCCAAATTGTGCAACTCAATAGTCACAGAGAAGGGCA	852	NRINKCLGIECLFPRSYFVSF**SF*ILIFLKWENTDRKLCNKHIYSTKASNYLFIIDTF*FMKEEIFLLIFLAAKNLLLFVHFYRKVWNFFFEVGSNWFFKKKCPFNRPNCATQ*SQRRA
Human ADRB3_v1	3	prey3033	115	ATGGCGGGGGCTGGTTCCGCCGCTGTATCGGGGGCAGGGACCCCGGTGGCGGGGCCCACAGGCCGCGACCTTTTCGCCGAAGGGCTGCTGGAGTTCCTGCGACCCGCTGTGCAGCAGCTCGACTCTCACGTACACGCCGTCAGAGAGAGCCAGGTAGAGCTCCGGGAACAAATTGACAACCTAGCCACAGAACTGTGCCGCATAAATGAGGATCAGAAGGTGGCCCTGGATCTTGACCCCTATGTTAAGAAGCTACTTAATGCCCGGCGACGCGTTGTCTTGGTTAACAACATTCTACAGAATGCTCAGGAACGACTGAGACGGCTAAACCACAGTGTTGCCAAGGAAACAG	853	MAGAGSAAVSGAGTPVAGPTGRDLFAEGLLEFLRPAVQQLDSHVHAVRESQVELREQIDNLATELCRINEDQKVALDLDPYVKKLLNARRRVVLVNNILQNAQERLRRLNHSVAKET
Human ADRB3_v1	3	prey98889	116	GCNCTGTTNTTTANGTTGACAGGTAGTACNTCGTGTCGCATCTATGTCTAGGGATCTTAAATGAGCTCAACTTTCCTGAAACAGTTTTCTATTGCAATTTAAAAAATAGCTTTACACAGGGCANATAGATGTTAGTGATAAAGTTGCTACCACCAGATAGCTTATGATTATGAGTATATGTTACTTGGATTGGTGAACTTGACCACATCTTAACCTTGGTGGTAACTACTTGAACCTATGGGTGGGTCCGTNGATTGTGNTGGTAAATGNCTGGNCNTNGCTTGGTGTNTG	854	ALXFXLTGSTSCRIYV*GS*MSSTFLKQFSIAI*KIALHRAXRC***SCYHQIAYDYEYMLLGLVNLTTS*PWW*LLEPMGGSVDCXGKXLXXAWCX
Human ADRB3_v1	3	prey53847	117	CACGCAGCCTAGCAATGCCGCGGGAACTAACACTACCTCGGCGTCGACTCCCAGGAGTAACTCCACACCTATTTCCACAAATAGCAACCCGTTTGGGTTGGGGAGCCTGGGAGGACTTGCAGGCCTTAGCAGCCTGGGCTTGAGCTCGACCAACTTCTCTGAGCTCCAGAGCCAGATGCAGCAGCAGCTTATGGCCAGCCCTGAGATGATGATCCA	855	TQPSNAAGTNTTSASTPRSNSTPISTNSNPFGLGSLGGLAGLSSLGLSSTNFSELQSQMQQQLMASPEMMIQIMENPFVQSMLSNPDLMRQL

				AATAATGGAAAATCCCTTTGTTCAGAGCATGCTTTCGAATCCCGATCTGATGAG GCAGCTGATTATGGCTAATCCACAGATGCAGCAATTGATTCAGAGAAACCCAGA AATCAGTCACCTGCTCAACAACCCAGACATAATGAGGCAGACACTCGAAATTGC CAGGAATCCAGCCATGATGCAAGAGATGATGAGAAATCAAGACCTGGCTCTTAG CAATCTAGAAAGCATCCCAGGTGGCTATAATGCTTTACGGCGCATGTACACTGA CATTCAAGAGCCGATGCTGAATGCCGCACAAGAGCAGTTTGGGGGTAATCCATT TGCCTCCGTGGGGAGTAGTTCCTCCTCTGGGGAAGGTACGCAGCCTTCCCGCAC AGAAAATCGCGATCCACTACCCAATCCATGGGCACCACCGCCAGCTACCCAGAG TTCTGCAACTACCAGCACGACCACAAGCACTGGTAGTGGGTCTGGCAATAGTTC CAGCAATGCTACTGGGAACACCGTTGCTGCCGCTAATTATGTCGCCAGCATCTT TAGTACCCCAGGCATGCAGAGCCTGCTGCAACAGATAACTGAAAACCCCCAGCT GATTCAGAATATGCTGTCGGCGCCCTACATGAGAAGCATGATGCAGTCGCTGAG CCAGAATCCAGATTTGGCTGCACAGATGATGCTGAATAGCCCGCTGTTTACTGC AAATCCTCAGCTGCAGGAGCAGATGCGGCCACAGCTCCCAGCCTTCCTGCAGCA GATGCAGAATCCAGACACACTATCAGCCATGTCAAACCCAAG		IMANPQMQQLIQRNPEISHLLNN PDIMRQTLEIARNPAMMQEMMRN QDLALSNLESIPGGYNALRRMYT DIQEPMLNAAQEQFGGNPFASVG SSSSSGEGTQPSRTENRDPLPNP WAPPPATQSSATTSTTTSTGSGS GNSSSNATGNTVAAANYVASIFS TPGMQSLLQQITENPQLIQNMLS APYMRSMMQSLSQNPDLAAQMML NSPLFTANPQLQEQMRPQLPAFL QQMQNPDTLSAMSNP
Human ADRB3_v1	3	prey98896	118	TTTAGAATTCTTGGATTTCTAGAAAAACAATACTCAATTAAGATTTAATATTAA CCTGTCTCTAGATTATTTTTCTGATATTTTACTTGTAGCTATACGTAGATAATT TTCTATCTGTAGTAACTTTTTTTTTGTTTTGTTCTAATTCAGCCCTCTTCTATA ATCAGTTTTATACTAGTCTCAAAAATAATTTTGGTGATTTTCTAATTTTTCATT TCCCTTGTCAAAAATTGTTTTTAATTGTTAAGAATTCCTTTTAATTCTAAAATA AGCAGGCGC	856	FRILGFLEKQYSIKI*Y*PVSRL FF*YFTCSYT*IIFYL**LFFCF VLIQPSSIISFILVSKIILVIF* FFISLVKNCF*LLRIPFNSKISR R
Human ADRB3_v1	3	prey98902	119	CGGTCTCTCTTAAAAATTCTGGACATAAGTGATGGACTGAGGCCAGAATCTCAT TTTTAGTTTTTATGGTTCAAAGTTTAGAACTCTTAGTTTGAACCAGGTTTTTCC AGTCTTGGAACTACTGACATTGTATGGGGATAAGGTGAGGGGGACACTCCTGTG CACTGNGTGNTGTTNNAGGGAGGGTTGNGTGGGGTGTGCNGGCTGTGTGGGGGG GGGGGGTGGGGNTGGGGGGGGGGCGGGGGGGGGGGTGTGGGGTGNNGTGGGGGG GTGGGGGGGGGGCCGGGGNTTCGNTGC	857	RSLLKILDISDGLRPESHF*FLW FKV*NS*FEPGFSSLGTTDIVWG *GEGDTPVHXVXXXGGLXGVCXL CGGGGWGWGGGGGGGVGXXGGVG GGAGXSX
Human ADRB3_v1	3	prey2866	120	TAGCGCTTTGTTGTCTCTCCTGCCACAGGAAGGCTCCATGGTTGTCCTACTTTA AGCCTTCGGTGCCTTTAGTGAGGGGTACCTGAAAAATCTTAAAAAAAGGCTTAG CGCCCACCTCACCCCTCCACCCCCACGCCAACACAGTTTGCTCACATGCCAGTT ACTCCAGCATAAAGCTGAAATCTATTCAATACTATTGTCCCATAACTGATCTGA CTTTGTATGTAAATACAGAAAAAGCTTGTTCACCTGTTTTCCTCATTTTGTCCA CTGGTGAATTCAACTGGAAGCTCCTTCTATAGTCTGAAGAATACCATCTGAAAG AACTAGTGGTTCCCAATCCCCACATTTAAAATGG	858	SALLSLLPQEGSMVVLL*AFGAF SEGYLKNLKKRLSAHLTPPPPRQ HSLLTCQLLQHKAEIYSILLSHN *SDFVCKYRKSLFTCFPHFVHW* IQLEAPSIV*RIPSERTSGSQSP HLKW
Human ADRB3_v1	3	prey96391	121	GAAGATGCTCATGAAGAGGGCTCTGAAGTTTAAGGATCCATTGCTGATGAAAAT GATTAGAAACATTTCTCAGCATGATGGACCAACTAAAAATCTGTTTATTGATTA TGTTGGGGACCTTGCAGCCCAGATCTCTAATGATGAAGAAGAGGAGTTTGTGAT TGAATGTTTGGGAACTCTTGCAAACTTGACCATTCCAGACTTAGACTGGGAATT GGTTCTTAAAGAATATAAGTTGGTTCCATACCTCAAGGATAAACTAAAACCAGG	859	KMLMKRALKFKDPLLMKMIRNIS QHDGPTKNLFIDYVGDLAAQISN DEEEEFVIECLGTLANLTIPDLD WELVLKEYKLVPYLKDKLKPGAA EDDLVLEVVIMIGTVSMDDSCAA

				TGCTGCAGAAGATGATCTTGTTTTAGAAGTGGTTATAATGATTGGAACTGTATC CATGGATGACTCTTGTGCTGCATTGCTAGCCAAATCTGGCATAATCCCTGCACT CATTGAATTGCTAAATGCTCAACAAGAAGATGATGAATTTGTGTGTCAGATAAT TTATGTCTTCTACCAGATGGTTTCCACCAAGCCACAAGAGACGTCATAATCAA GGAAACACAGGCTCCAGCATATCTCATAGACCTAATGCATGATAAGAATAATGA AATCCGAAAGGTCTGTGATAATACATTAGATATTATAGCGGAATATGATGAAGA ATGGGCTAAGAAAATTCAGAGTGAAAAGTTTCGCTGGCATAACTCTCAGTGGCT GGAGATGGTAGAGAGTCGTCAGATGGATGAGAGTGAGCAGTACTTGTATGGTGA TGATCGAATTGAGCCATACATTCATGAAGGAGATATTCTCGAAAGACCTGACCT TTTCTACAACTCAGATGGATTAATTGCCTCTGAAGGAGCCAT		LLAKSGIIPALIELLNAQQEDDE FVCQIIYVFYQMVFHQATRDVII KETQAPAYLIDLMHDKNNEIRKV CDNTLDIIAEYDEEWAKKIQSEK FRWHNSQWLEMVESRQMDESEQY LYGDDRIEPYIHEGDILERPDLF YNSDGLIASEGA
Human ADRB3_v1	3	prey98906	122	GCTCACATTCTTTCATTCTTGGCTCCCCTGGCACTTCCTGAATGGAACCCACTC TGATCTTATTTAAAATTACACTTTGCTTTCACTGGCANCTCAGCCCCCAAAAGC TCCTTCCCTGTTTTCTCAACATGGCAATTATTACCTTCTAACATACTCTATAAT TTATGTATTTGTTTTTGTTTGTTGTCTGTCTCCTGCCAATAGAATGTAAGAAAC ACAGCTACAGGGATTTTTGTGTATTTTATTCACGGTCATATTTCTAGTTTCGAA AATAGAGCCTGACATTGTAGTAGGCACTAAACAAATATTTCTTGAAGGAAAGAT TAATCAAAGGTTCAAGGTTTAGGAGGAAAATCAGATTTGTTATAGACCAAATTA AAGAAATTACATTTTCCCTATACATCCATTTGCCCTTGACATTATAGCTGCTCA AAGAGGATTTATTGTTCCTTGTGTGTGCATTCCTCNCCATATTCTTATTGTCAC	860	AHILSFLAPLALPEWNPL*SYLK LHFAFTGXSAPKSSFPVFSTWQL LPSNILYNLCICFCLLSVSCQ*N VRNTATGIFVYFIHGHISSFENR A*HCSRH*TNIS*RKD*SKVQGL GGKSDLL*TKLKKLHFPYTSICP *HYSCSKRIYCSLCVHSSPYSYC H
Human ADRB3_v1	3	prey45676	123	CTGGGCTGTACTGAATGGCTGGAGACAACACTTTATCAGTTTTGACACTGACAG GAGTGGAACAGTAGACCCACAAGAATTGCAGAAGGCCCTGACAACAATGGGATT TAGGTTGAGTCCCCAGGCTGTGAATTCAATTGCAAAACGATACAGCACCAATGG AAAGATCACCTTCGACGACTACATCGCCTGCTGCGTCAAACTGAGGGCTCTTAC AGACAGCTTTCGAAGACGGGATACTGCTCAGCAAGGTGTTGTGAATTTCCCATA TGATGATTTCATTCAATGTGTCATGAGTGTTTAA	861	WAVLNGWRQHFISFDTDRSGTVD PQELQKALTTMGFRLSPQAVNSI AKRYSTNGKITFDDYIACCVKLR ALTDSFRRRDTAQQGVVNFPYDD FIQCVMSV*
Human ADRB3_v1	3	prey98908	124	AGGAAAATTTTAAAAATGTTTCAAAGGGAAGATTGTGATAAGAAAGTATTAGAA GCAACTCTTTATTAAGTAAAAGGATAGTTATTTAGTATTTTCATTTTAGGTGAC TTAAAAAGTATGTATATTTTAATATGCAAATATAAAGAATTAGATATTTTACAT TGTTCTAAAAAGTCTCTGAAAACCCATGCGCATTACAGATGATCTAAACTTGAA CTAGCCACATTTTAAGGGTTTACTTGTCACAGTGGTTGGTGGCTTTCATCTTGA TAGTGCAGCTCTAGATTGTCCTGTCTCATCTTTCAGATCCCAGCTTGCCATTTC TCAGGGAGCCCTTCTCTGATCCCCATGCCTGTCAGTTTCCCTTTAAGAGCATTT ATCACAGTTGTAATTTATATTTCAATTAGTAGGATTGTTCGATGTTTGTCTCTT CCATTAGATATAGACACGAGTGTCTCCCATTGTATTCTCAGTCATTGCACAAAG CTAGTGGTCAATAAATAGTATTTGACTGAAGGAAGTGTGCAATTAGTGGTATAA GGTAACTTGCCCAGTGTCACACATTTAATTTTAGAATCAC	862	RKILKMFQREDCDKKVLEATLY* VKG*LFSIFILGDLKSMYILICK YKELDILHCSKKSLKTHAHYR*S KLELATF*GFTCHSGWWLSS**C SSRLSCLIFQIPACHFSGSPSLI PMPVSFPLRAFITVVIYISISRI VRCLSLPLDIDTSVSHCILSHCT KLVVNK*YLTEGSVQLVV*GNLP SVTHLILES
Human ADRB3_v1	3	prey98910	125	GATCTCATTTTAAGATCCCTTTCTACTCTGAAAGTATGTTTCTGAGATTGAGTA GGAGGCCAGAAAATGATGACTTTTAGTAAAAGTCTATTAAAAGTTTCAGACTGA ATAACTAATGTGAGATCCCAATTTTTCCTTTTTTTCATTTTAGATTTGGGGATA	863	DLILRSLSTLKVCF*D*VGGQKM MTFSKSLLKVSD*ITNVRSQFFL FFILDLGIFPAQKIPGKLTSIKC

				TTCCCTGCCCAAAAAATTCCTGGAAAATTGACTAGTATTAAGTGTGAGTAAAAGGTGTCCACTTTTTTTTTAAGTTTTGATTTTAGTTTTGTCTTGGATAGTATTTGGCAAGATTTANNCTAAC		E*KVSTFFLSFDFSFVLDSIWQDLX*
Human ADRB3_v1	3	prey98913	126	CATGCTCTTCTTAACCACTTGCTTATATCACCTTTTTCTGAATCAGCCCATCTTTATTAAATTTTGACAATTGAAGTCATGTTTTTGGCAACGACGTGATTATCAACATTCATAAATACGATACCAAAATCATATAGTAACACCCAGATGGACAGCATTATGCTGATATTTCTTGTCATTGAAATGAAAAGAATTTTTTAAATTCTTGGAGATAATTTATCGTTTNCTAAGATTANAAACACNAGGAGATTTGGAAGTNCTGAGGAAGAATTTNAGATNGGTNTNGNC	864	HALLNHLLISPFSESAHLY*ILTIEVMFLATT*LSTFINTIPKSYSNTQMDSIMLIFLVIEMKRIF*ILGDNLSFXKIXNTRRFGSXEEEFXXGXX
Human ADRB3_v1	3	prey98914	127	CGGGATGGTTCTCAAAATCCTGAGATCAAGTGATCTTCCCATCTAGCCTCAAAAATGCTGGGATTATAGGAGTGAGCCACAGTGCCTGGCTGCTTGTGTGGTTCTGTTTGTTGCACAGAATTAAGCTTGGAGAATTTTAAATCAGATTGGCAGTATCTAAACTTAAAGTATAATAAAAAAAAAAAAANNTNTTGNNAAAAAANCTTTNAAATTGNGGNNNGGNGTANGGGNTTTTTTTTTNAANTGCTAGGNTTTTTGNTGGTNTTTNAAANGGNTANGGTTNCNGGGGGNNCCN	865	RDGSQNPEIK*SSHLASKMLGL*E*ATVPGCLCGSVCCTELSLENFKSDWQYLNLKYNKKKKXXXKKXXKLXXGVXXFFXXC*XFLXVFXXXXVXGGX
Human ADRB3_v1	3	prey98915	128	GCCTCCCTGCTTAAGGTTCTAGGAGACATTTTTTTCTCATGTCCCTGCTGGTGATAAACATTTTGTCCTTCAGTAGATATTTCTACCCCTGGAATGCTGAAGAGTTGAGGACAGGCCACGCAGCCAGCCACACTTCTGATTCTCAGCACTTACATATACATACTTGGAACAAAATCTTTCAGTTGGCACTTAATTAATCTTTGGCTGGAAGGTGAATTTTACCATAAAAGTCTAGTCAACAATGATTCTTCTTGGGAGACTCAGGGGTAATTCATCAACCTAACCCCC	866	ASLLKVLGDIFFSCPCW**TFCPSVDISTPGMLKS*GQATQPATLLILSTYIYILGTKSFSWHLINLWLEGEFYHKSLVNNDSSWETQG*FINLTP
Human ADRB3_v1	3	prey98919	129	AAAGACATCATTCAAATCTTAAACAAACACAGCCTATTTGAGAAAGAGCCCTTTGCCTTATATCAAGACAGACCAGAATGATAGAGTTTTATATCTAAATATGAGACCCCACATATCAATAAATCACAGAGACCAGTTGCTTTGTTTTACAGATGAAGAAACTGAGAAACAGACAGATAAAGGGACTCTGCCCATAGTCACACAGCTGTTTAGTGACAAGCCTGGCTCTTAAGCTGGTTCTGGAATGGTTTTAGGTGAACCAAGCATGCTGACATGGGAGAG	867	KDIIQILNKHSLFEKEPFALYQDRPE**SFISKYETPHINKSQRPVALFYR*RN*ETDR*RDSAHSHTAV**QAWLLSWFWNGFR*TKHADMGE
Human ADRB3_v1	3	prey95094	130	TCAGAAAATTACTTCAAAATATAGGCATAGATAAGATTAAAGAATCCATATACACCATGACCACGACCATCACTCAGACCACGAGCATCACTCAGACCATGAGCGTCACTCAGACCATGAGCATCACTCAGAGCACGAGCATCACTCTGACCATGATCATCACTCTCACCATAATCATGCTGCTTCTGGTAAAAATAAGCGAAAAGCTCTTTGCCCAGACCATGACTCAGATAGTTCAGGTAAAGATCCTAGAAACAGCCAGGGGAAAGGAGCTCACCGACCAGAACATGCCAGTGGTAGAAGGAATGTCAAGGACAGTGTTAGTGCTAGTGAAGTGACCTCAACTGTGTACAACACTGTCTCTGAAGGAACTCACTTTCTAGAGACAATAGAGACTCCAAGACCTGGAAAACTCTTCCCCAAAGATGTAAGCAGCTCCACTCCACCCAGTGTCACATCAAAGAGCCGGGTGAGCCGGCTGGCTGGTAGGAAAACAAATGAATCTGTGAGTGAGCCCCGAAAAGGCTTTATGTATTCCAGAAACACAAATGAAAATCCTCAGGAGTGTTTCAATGCATCAAAGCTAC	868	RKLLQNIGIDKIKRIHIHHDHDHHSDHEHHSDHERHSDHEHHSEHEHHSDHDHHSHHNHAASGKNKRKALCPDHDSDSSGKDPRNSQGKGAHRPEHASGRRNVKDSVSASEVTSTVYNTVSEGTHFLETIETPRPGKLFPKDVSSSTPPSVTSKSRVSRLAGRKTNESVSEPRKGFMYSRNTNENPQECFNASKL

Human ADRB3_v1	3	prey4629	131	CGACGACTGGGACAATGAGAACAGCTCTGCGCGGCTTTTTGAGCGGTCCCGCAT CAAGGCTCTGGCAGATGAGCGTGAAGCCGTGCAGAAGAAGACCTTCACCAAGTG GGTCAATTCCCACCTTGCCCGTGTGTCCTGCCGGATCACAGACCTGTACACTGA CCTTCGAGATGGACGGATGCTCATCAAGCTGCTGGAGGTCCTCTCTGGAGAGAG GCTGCCTAAACCCACCAAGGGACGAATGCGCATCCACTGCTTAGAGAATGTGGA CAAGGCCCTTCAGTTCCTGAAGGAGCAGAGAGTCCATCTTGAGAACATGGGGTC CCATGACATCGTGGATGGAAACCACCGGCTGACCCTTGGCCTCATCTGGACCAT CATCCTGCGCTTCCAGATCCAGGATATCAGTGTGGAAACTGAAGACAACAAAGA GAAGAAATCTGCCAAGGATGCATTGCTGTTGTGGTGCCAGATGAAGACAGCTGG GTACCCCAATGTCAACATTCACAATTTCACCACTAGCTGGAGGGACGGCATGGC CTTCAATGCACTGATACACAAACACCGGCCTGACCTGATAGATTTTGACAAACT AAAGAAATCTAACGCACACTACAACCTGCAGAATGCATTTAATCTGGCAGAACA GCACCTCGGCCTCACTAAACTGTTGGACCCCGAAGACATCAGCGTGGACCATCC TGATGAGAAGTCCATAATCACTTATGTGGTGACTTATTACCACTACTTCTCTAA GATGAAGGCCTTAGCTGTTGAAGGAAAACGAATTGGAAAGGTGCTTGACAATGC TATTGAAACAGAAAAAATGATTGAAAAGTATGAATCACTTGCCTCTGACCTTCT GGAATGGATTGAACAAACCATCATCATTCTGAACAATCGCAAATTTGCCAATTC ACTGGTCGGGGTTCAACAGCAGCTTCAGGCATTCAACACTTACCGCAC	869	DDWDNENSSARLFERSRIKALAD EREAVQKKTFTKWVNSHLARVSC RITDLYTDLRDGRMLIKLLEVLS GERLPKPTKGRMRIHCLENVDKA LQFLKEQRVHLENMGSHDIVDGN HRLTLGLIWTIILRFQIQDISVE TEDNKEKKSAKDALLLWCQMKTA GYPNVNIHNFTTSWRDGMAFNAL IHKHRPDLIDFDKLKKSNAHYNL QNAFNLAEQHLGLTKLLDPEDIS VDHPDEKSIITYVVTYYHYFSKM KALAVEGKRIGKVLDNAIETEKM lEKYESLASDLLEWIEQTIIILN NRKFANSLVGVQQQLQAFNTYR
Human ADRB3_v1	3	prey98922	132	TCTTATACATTATCCTTTTTTGATTCAGACTCTTTCAGAAAAGATTCATTAAGA TTCACTTTGACCTAAAGTAGCCCCTAGAGGTGTAGCTTGATATCTAGGTTGTTC CCCAGTCCAGAGTTCTACTCTGTGCTAAACTTTACCTTTTTCAACTCCAGGGG TGTGGAAGAGGGCACTCCCTTGAACCTCACTGCCTTATACTGACAATTGATATA TGTAACTAACACCTGATCCACAAGCTTATTTTAAATNTNCTGTTNGTNGGCTCN GAATNTNCGNNCT	870	SYTLSFFDSDSFRKDSLRFTLT* SSP*RCSLISRLFPSPEFYSVLN FTFFQLQGCGRGHSLEPHCLILT IDICN*HLIHKLILNXLXVGSEX XX
Human ADRB3_v1	3	prey98924	133	TGCCTCCTCCTCTCCTTTCTAGGTATACAAACATTTCCCAACCTCCTGTAGTTA GACCTGGCCATGAGATCCTAACCAATGGAATGCAAGCAGGAGTGATGTGCGCCC TTTCCAGGCCTGACTCACGTATGTTCCTCCATGCTGTTTCCCCTTCTGACTGG CTGGTAGGGCCATGAGCCCCAAAGTGAGTTTGGAAGCCATATGGTAAAGAGGCT AGAGCTTCAGGTAGCTCAGGTCCCTGAATGGCCATCCTATCAGTGTNTGTGCCC GCTGGNGTGGGGTG	871	CLLLSFLGIQTFPNLL*LDLAMR S*PMECKQE*CAPFPGLTHVCSS MLFSPSDWLVGP*APK*VWKPYG KEARASGSSGP*MAILSVXVPAG VG
Human ADRB3_v1	3	prey98925	134	CGTTGGGTTATGAAGCACATAGGTGATTACGAGGCAGGCCCTATTGAAGACCTA ATTTCTTTTATACTTTAGTGAGCTCCTGCTCATTTAAAACAGAAACATTAAATA AATAAAAAGCTAACTAGGAATTTGCTTGCCTTGAATGAGNATGAGGNGNGCCTG TGCCNCTTGGAAAGTGTGGATNNCNCGAGGGTTGGGGGTNCGTGNTNGTGGTGG ANGGGTGGGTNTNTGGACTGTANNGNNTNTNTTGGNNAGAGNNANGNTATGGGG GGGNGNTGGGGGGGGTGGGGTGGGNGGNNTGGG	872	RWVMKHIGDYEAGPIEDLISFIL **APAHLKQKH*INKKLTRNLLA LNEXEXXLCXLESVDXXRVGGXX XWWXGGXXDCXXXXGXXXXMGGX WGGWGGXXG
Human ADRB3_v1	3	prey98936	135	AAAGCCATACTAAATGAAATTTTTGGATCCTACCGAAACTAAAAGATTGGAGTA AGTTAAAATGTTAGTTTAATACCCAAGGCAACCACTAAGAAACAAAACAAAAA ATAAAGTCAAAGAAACATAGGAGTTAAGATGGTACACTACAAAATATCTATTTA	873	KAILNEIFGSYRN*KIGVS*NVS FNTQGNH*ETKQKIKSKKHRS*D GTLQNIYLTVRQAVMEEQRNKSD

				ACAGTAAGACAGGCAGTAATGGAAGAACAGAGGAACAAAAGTGACAAGAGATAGAAAGATTAACAGCAAAAGAGCCCTATATTATCAATAANTACATTANAATGCAAGACAGGCAGAATGTAGTAAAC		KR*KD*QQKSPILSIXTLXCKTGRM**
Human ADRB3_v1	3	prey98940	136	ATGAGTGAAGCCCCCAGATTCTTCGTTGGACCAGAAGATACAGAAATAAATCCTGGAAATTATCGACATTTCTTCCACCATGCAGATGAAGACGATGAGGAGGAAGATGATTCTCCACCAGAAAGGCAGATTGTGGTTGGAATATGTTCCATGGCAAAGAAATCCAAATCCAAACCAATGAAGGAAATTCTTGAACGGATCTCCTTATTTAAATATATCACAGTAGTAGTATTTGAAGAGGAGGTTATTTTGAATGAACCAGTGGAAAACTGGCCTTTATGTGATTGTCTTATTTCTTTCCATTCTAAAGGATTTCCACTGGACAAAGCGGTTGCCTATGCAAAACTCAGGAATCCATTTGTAATCAATGACTTGAATATGCAGTATCTCATACAAGATAGGAGAGAAGTATATAGTATTCTTCAAGCTGAAGGTATTTTACTTCCTCGTTATGCTATTTTGAACCGTGACCCAAATAATCCCAAAGAATGTAATCTGATTGAAGGGGAAGATCATGTAGAAGTAAATGGGGAAGTTTTTCAAAAGCCATTTGTAGAAAAGCCAGTCAGTGCAGAAGATCACAATGTTTACATTTATTACCCAACTTCTGCTGGTGGTGGAAGTCAAAGACTCTTTAGAAAGATTGGCAGTAGAAGTAGTGTTTATTCTCCAGAAAGCAATGTACGAAAAACAGGCTCATATATATATGAAGAGTTTATGCCCACAGATGGTACTGATGTTAAGGTTTATACAGTGGGTCCAGATTATGCCCATGCTGAAGCTCGAAAATCTCCAGCACTTGATGGCAAGGTGGAACGAGACAGTGAAGGAAAA	874	MSEAPRFFVGPEDTEINPGNYRHFFHHADEDDEEEDDSPPERQIVVGICSMAKKSKSKPMKEILERISLFKYITVVVFEEEVILNEPVENWPLCDCLISFHSKGFPLDKAVAYAKLRNPFVINDLNMQYLIQDRREVYSILQAEGILLPRYAILNRDPNNPKECNLIEGEDHVEVNGEVFQKPFVEKPVSAEDHNVYIYYPTSAGGGSQRLFRKIGSRSSVYSPESNVRKTGSYIYEEFMPTDGTDVKVYTVGPDYAHAEARKSPALDGKVERDSEGK
Human ADRB3_v1	3	prey98942	137	AAACTGATTTTAAATATTTTGGTAAATTCACAGAAGTGGGATTCCTGGATCTAATTTCATTTTAATTGAATTAAATTTAATTTCAGATATTTATCCATGAAGTTGGGTAACTATGACTGGTACAGAAAGCTTATCTTTAGTTTTGATTTACCTGTGTAAATAAATACAGGTTGGGCATGTGTAATTTGAAAATGGCNTANCTTTTTGAGTGCTGACGTGATGCNGGGANGTAGANGATTGCNCATGGGGACCTTGGGGGACGGGGGTGGGGTGGTGTGGGTGGGGGGGTGGGGC	875	KLILNILVNSQKWDSWI*FHFN*IKFNFRYLSMKLGNYDWYRKLIFSFDLPV*INTGWACVI*KWXXFLSADVMXGXRXLXMGTLGDGGGVVWVGGWG
Human ADRB3_v1	3	prey98943	138	TTTGTACTGATCACCTACCTTCAACAATTCATGGATAATCATCTAACTTTCCCAATTATTTTGAAGTAAACTTAGGCATCATGTTATTACTTTAGTAGATATTTCTAAGTATGTACTTCTTTTTTTTTTTTNGNAANGGGNNTTCNCTTTTGGNGNCCNANNNNGAAGGGAAGGGGNNGANTTTGGGTNANNGGAACCNNNNCCNTCNGGGNTNAAGGGNNTTTNCNGGCNTGGNNNNGGGGGGGGGGGG	876	FVLITYLQQFMDNHLTFPIILK*T*ASCYYFSRYF*VCTSFFFXXXGXXFWXPXXKGRGXXWVXGTXXXXXXGXXXAWXXGGG
Human ADRB3_v1	3	prey98944	139	GTGGCCATAAATGATCTAATTTCCAAATCAATGAATCGATGAATATTCCAGGCAAATAACATTAGAAAAGTAAGAGTGCCATTTTCTTCTCTCAAAATTCTGACACTATACAAAATAAAGAATACAGTCACCATTATATGATAAACTTCAGAAAATCATGATCAAGACTGGACATACAACTATTCAGCTGAGGAGTAATCACAGCATTCTAATTACGAAGGAAAAAAATGAAAGTGNNAAAACTNNCTTNNTNTNGNGTGTTGNGCCTTNNNAAGTNTNTGCTGN	877	VAINDLISKSMNR*IFQANNIRKVRVPFSSLKILTLYKIKNTVTII**TSENHDQDWTYNYSAEE*SQHSNYEGKK*KXXNXLXXXCXAXXSXCX
Human ADRB3_v1	3	hgx36	140	ATGTCGAATCTGAGCAAAGGCACGGGCAGCCGGAAGGACACCAAGATGCGGATCCGGGCCTTTCCGATGACCATGGATGAAAAATATGTAAACAGCATTTGGGACCTT	878	MSNLSKGTGSRKDTKMRIRAFPMTMDEKYVNSIWDLLKNAIQEIQR

				CTGAAAAATGCAATTCAAGAAATCCAGCGTAAGAATAACAGTGGTCTTAGTTTT GAGGAGCTCTATAGAAATGCATATACAATGGTTTTGCATAAACATGGAGAAAAG CTCTACACTGGACTAAGAGAAGTTGTTACCGAACATCTCATAAATAAGGTGCGA GAAGATGTACTAAATTCATTGAATAACAACTTTCTTCAAACGCTAAATCAAGCT TGGAATGATCATCAAACAGCTATGGTGATGATTAGAGACATACTAATGTACATG GACCGTGTGTATGTACAACAAAATAATGTGGAGAACGTCTACAATTTGGGATTA ATTATTTTTCGAGATCAAGTTGTACGTTATGGGTGTATTAGGGATCATCTACGG CAAACTCTATTGGATATGATTGCAAGAGAGCGGAAAGGAGAAGTCGTAGACAGA GGCGCAATAAGAAATGCTTGCCAGATGTTAATGATTTTAGGTCTCGAAGGAAGA TCAGTCTATGAAGAAGATTTTGAGGCTCCTTTTTTGGAAATGTCTGCAGAATTT TTTCAGATGGAAAGCCAGAA		KNNSGLSFEELYRNAYTMVLHKH GEKLYTGLREVVTEHLINKVRED VLNSLNNNFLQTLNQAWNDHQTA MVMIRDILMYMDRVYVQQNNVEN VYNLGLIIFRDQVVRYGCIRDHL RQTLLDMIARERKGEVVDRGAIR NACQMLMILGLEGRSVYEEDFEA PFLEMSAEFFQMESQ
Human ADRB3_v1	3	prey98950	141	ACGTTAGATAAAAAAGAGTTTGCCAAATTTAACCCTCTGGTAACTGCAACAATT CTCCCGGCATGTTCTTTGAGGACAGTGTTACACCATATACACAATTGGTCCTTA GTGAAGATATTTAAAAACATGAGTGTGTAAGATTTCTTAATAATAATTCTATTT TTCTAAGCATAAATTCAAATTATTTTTCAATGAATACATAGGAGATTCTTACAC TTTCTTTTAAGTTGCTTACTAAATTTCTGGATGCCTGCATTTTCAGTGAAACTG CATTTTCAGAAACTGCA	879	TLDKKEFAKFNPLVTATILPACS LRTVLHHIHNWSLVKIFKNMSV* DFLIIILFF*A*IQIIFQ*IHRR FLHFLLSCLLNFWMPAFSVKLHF QKL
Human ADRB3_v1	3	prey98955	142	TGGAAGTTACAGAGAATTCTAGATAGCGAGGGGAAGCTAGGTTCCAATCAGGAG TCATTTCTATGTAAGTATTTNTGGTNAATTGCCTAACAAGGTCTNTGAANAAAG GNGTGTGAACGTGGGNGACTGCNGNNGCTGGGGTGTGACTTTNTTTGCGGTTNT GNGGGTGGGGNTGTGNTGNGGTGGGTGGGGGGGGTGNGGTGGGTGCGCGTAATN GNGGGCGNCTCTGGGGGAGGNGNNGNGNNGNNNTTNGNGCNNNGGGNGGNNANG GGAGGNNCCCCGNTNTNGGGTNCGTCGTGGGCNNNCGTNTNCCCCCGGGNGGGN GGNCGNGC	880	WKLQRILDSEGKLGSNQESFLCK YXWXIA*QGL*XKXCERGXLXXL GCDFXCGXXGGXVXXWVGGVXWV RVXXGXSGGGXXXXXXXXXXXGG XPXXGXSWAXVXPRXGGR
Human ADRB3_v1	3	prey98956	143	GCAGCNCCCNTCTTACTTCTGNGNNGNCCCAGAAGTNCNAGANTNATGTTACTG GGCCCANAANCAAGNTGTGGGCAGGGCCTATGTTCATTTCTGCAGCTCTGAGGG AGAATCCATTTTCTTCCTTTTACTAGCTTCCAGAGGTTGCCACATTCTTGGCTC ACATCTGTCCCCCTTCCATCTTCAAAGCCAGAAATGGCTCATTAAATCTTTCTC CTATTGAGTTTCCTATCGGGTCTTTCTCTGACATTTGCTTCTGCCTCCCACTTC CACTCATAAGGACCCTTGTGATGACATTGGACCGATCCAGGATAATGTACTTGG TCAGCAACCC	881	AAPXLLLXXPRSXRXMLLGPXXX CGQGLCSFLQL*GRIHFLPFTSF QRLPHSWLTSVPLPSSKPEMAH* IFLLLSFLSGLSLTFASASHFHS *GPL**HWTDPG*CTWSAT
Human ADRB3_v1	3	prey98957	144	TTCTGGATCAGTTTAACTGCAGCGTATCTTGAGAATGCAAGGTGAACTATTTAA AAAGTTTTCACTCAAAACCATTTATCTAAGTCTATAATTTCAGGGATGACTTCT ATAGTTCATTACTAGAGAAGTTTCTCTGAACATGTAGAGCACGATAAAAAAATGA AAGTATAAAGATATTTTCAAAAACCCACAAAAGCACTTACCTGTGTGAATCANG ATTTTNTTGATATTATGCATATGAGAAAATATNGNAATNCTGNNACCATNNTTN ATNACCCGTTNGTTTG	882	FWISLTAAYLENAR*TI*KVFTQ NHLSKSIISGMTSIVHY*RSFSE HVEHDKK*KYKDIFKNPQKHLPV *IXIXLILCI*ENXXXLXPXXXT RXF
Human	3	prey98958	145	ACTTTATTCTAGATAAATTATATTTTTAGAGAATTTTACTATGGAAAGATA	883	TFILDKLYFLENFYYGKILFTL*

ADRB3_v1				CTTTTTACTCTATGATATTTTAAGTTAACAAGTTTCACTTTGAATATTGAAGATGTCATTCTAGTGTCTTNAAGATTCTACACTGTTNCTATTGAAATATNAGGTGTTNTTTNATTGTTGNTTGNTTTNATGTGATTNGTTGTTTTTGTGGNTGGTTTTNAAGGGTTTGTTTNGGGGTTTGGGGGNGTGGGGGGGGGGGGGGTNGGGGGGGGGGGGGGTNGGGGGGGGGGGGGN		YFKLTSFTLNIEDVILVSXRFYTVXIEIXGVXXLLXXXM*XVVFVXGFXGFVXGFGGVGGGGGXGGGGVGGGG
Human ADRB3_v1	3	prey2557	146	CGAGAACTCGCTGCTGGAAGTCCTGGATGGGGCGGTCATGATGTACAACCTCAGCGTACACCAGCAGCTGGGCAAGATGGTGGGTGTCTCCGATGATGTCAATGAATACGCTATGGCTCTGAGGGACACAGAGGACAAGCTCCGCCGGTGCCCCAAGAGGAGGAAGGACATCCTTGCAGAGTTGACCAAGAGCCAGAAGGTTTTCTCAGAAAAGCTGGACCACCTGAGCCGCCGTCTTGCCTGGGTCCATGCCACTGTCTACTCCCAGGAGAAGATGCTGGACATCTACTGGCTGCTGCGCGTCTGCCTGCGGACCATTGAGCACGGTGATCGCACAGGGTCTCTCTTTGCCTTCATGCCCGAGTTCTACCTGAGCGTGGCCATCAACAGCTACAGTGCTCTCAAGAATTACTTTGGTCCCGTGCACAGCATGGAGGAGCTCCCAGGCTATGAAGAGACCCTGACCCGCCTGGCTGCCATTCTCGCCAAACACTTTGCCGAC	884	ENSLLEVLDGAVMMYNLSVHQQLGKMVGVSDDVNEYAMALRDTEDKLRRCPKRRKDILAELTKSQKVFSEKLDHLSRRLAWVHATVYSQEKMLDIYWLLRVCLRTIEHGDRTGSLFAFMPEFYLSVAINSYSALKNYFGPVHSMEELPGYEETLTRLAAILAKHFAD
Human ADRB3_v1	3	prey98963	147	GNNNTTGTACGTGCTGTGCTTGCACATTGTTTCAACTTGNNAAANGNTNGCTCCCNNTGNANTGNCNNTGACTGTACTAATTTATNATNCTGTACTGCAAAAGACNNCTAGGTATNGTTAATTTANCTCTCANTTTATAGATTTGTGTTCTTCAAGGCTATCACACAAAGTTCCTTGTTTTCTNANGGGGCCCAAACTGGGATAAGTTTTCAATAGTTGNTNAAAGGTGTTTGGGCTGNGGTNTGTGGTGCTATGGANGGAGTGTGGGGNCTGGGCGGGGTTGNNCGC	885	XXVRAVLAHCFNLXXXXSXXXXXDCTNLXXCTAKDX*VXLIXLSXYRFVFFKAITQSSLFSXGAQTGISFQ*LXKGVWAXVCGAMXGVWGLGGVXR
Human ADRB3_v1	3	prey92609	148	ATGGAAGAAAGACTCAAAGCAGCCAACTTAGAGATGTTTAAGGGGAAAGGCATTGAGGAGCGGCAGCAGCTTATCAAGCAGCTGAGGGATGAGCTACGATTGGAAGAAGCCCGACTGGTCCTGTTAAAGAAACTGAGACAGAGTCAGCTACAGAAAGAGAATGTGGTCCAGAAGACTCCAGTTGTACAGAATGCAGCATCTATTGTTCAGCCATCTCCTGCCCATGTGGGACAGCAGGGCCTATCTAAGCTTCCCTCTCGGCCTGGGGCCCAAGGGGTTGAACCTCAAAATTTGAGAACATTACAGGGTCACAGTGTCATCCGTTCAGCTACCAATACCACCCTTCCACACATGTTGATGTCTCAACGTGTTATTGCACCAAACCCAGC	886	MEERLKAANLEMFKGKGIEERQQLIKQLRDELRLEEARLVLLKKLRQSQLQKENVVQKTPVVQNAASIVQPSPAHVGQQGLSKLPSRPGAQGVEPQNLRTLQGHSVIRSATNTTLPHMLMSQRVIAPNP
Human ADRB3_v1	3	prey98967	149	GCCCATATTCTCTCAATTCTATCATTTAAAAAAAATAACTACATCTACACCCTCCAAACATAAGGCTATTACATAGTATAGTCTCAACTTCTCAGCCCTCATTTGTCTTACTTCTACAGGTAACTATGTATTTAATACTTACCATCACGTCTTATGTCTCCTAATTGTTCTGCCTCCTAATTGTTCTGGTACACAATACCAGAACAATGTCTCTAATTGTTCTGGTAGCCTAAAACTCAAAGTTCATTCTCTAGTACACTGTTGTCCAATACAACTTTTTGTGATGATAGAAATATTCTATATCTCTGCTGTCCAATACAGTAGCTACTAGCCACATGTGGCTAATGCAACTGAGGAACTACAGATTTACTCTATTTAACTGTAATTAATTTAGTTTCCACACGTGGCTAGTGATTACCCTGCTTGACAGCACAGTTCTCACAGATTCATCAGGAAGGGCTCATGGGAAGAATATTCTTGGTTTCTCACATGT	887	AHILSILSFKKNNYIYTLQT*GYYIV*SQLLSPHLSYFYR*LCI*YLPSRLMSPNCSAS*LFWYTIPEQCL*LFW*PKTQSSFSSTLLSNTTFCDDRNILYLCCPIQ*LLATCG*CN*GTTDLLYLTVINLVSTRG**LPCLTAQFSQIHQEGLMGRIFLVSHM

Human ADRB3_v1	3	prey98968	150	TCTTTATTAAACACACTCCTAAAAATAAGGAACCATGACATTGTAGATATTTAA TATTGTACAGTATAGAAACCTCCATTTTTGCCTTCGAATGCATATTTAAGAGTT AACAGAATGAAAAAAAAAAGTCTTGTTGGATAATAGTGTTTGACTAGCGTTTTA AGAACTTGAGAGTAAAAGCAACAATAAGATTTTTCACCTCTTCCTGCTTCCAC CCCCAAACTGAGAACATCACTCAATTGTTTGGAAGAAACTGTAGGTCTATATAA ATTTTATTTATAATGTATGTGTAATATACATAATCATAATACAGTTCTCAGATG CAGGGAAGAAGTTTGGCATTTAATCATTGAGGCTTTAGGTTTTTGATGTGATCA GACTGGGCCATGTCAAACCCGGAATTTTCACCAACAGTTCACTCACC	888	SLLNTLLKIRNHDIVDI*YCTV* KPPFLPSNAYLRVNRMKKKSLVG **CLTSVLRT*E*KQQ*DFFTSS CFHPQTENITQLFGRNCRSI*IL FIMYV*YT*S*YSSQMQGRSLAF NH*GFRFLM*SDWAMSNPEFSPT VHS
Human ADRB3_v1	3	prey99003	151	AGAAGTCTATTAGGTCTGCTTGGTGCAGAGCTGAGTTCAATTCCTGGGTATCCT TGTTAACTTTCTGTCTCGTTGATCTGTCTAATGTTGACAGTGGGGTGTTAAAGT CTCCCATTATTAATGTGTGGGAGTCTAAGTCTCTTTGTAGGTCACTCAAGACTT GCTTTATGAATCTGGGTGCTCCTGTATTGGGTGCATATATATTTAGGATANTTN NNTNTTNTTGNTGAATTGACCCCTTTNCCATTNTGGGATGNGCTTGTTTNNGGT GTTTTNATGTTNNNNGANN	889	RSLLGLLGAELSSIPGYPC*LSV SLICLMLTVGC*SLPLLMCGSLS LFVGHSRLAL*IWVLLYWVHIYL GXXXXXXELTPXPXWDXLVXGVX MXXX
Human ADRB3_v1	3	prey98981	152	TAGACGTCTACTTGACTGGATTGAGAGACACACATAGCTGGTCAAACACGATTT CAGCCATGAATCAGGCATAAATATTCNTGACGGTTAATTGTAGACATCTACTTG ACTGGATTAAGAGACACACACAGCTGGNCNAACGGTGTGAGCCCTGAATTCANG CGTNNGG	890	DVYLTGLRDTHSWSNTISAMNQA *IFXTVNCRHLLDWIKRHTQLXX RCEP*IXAX
Human ADRB3_v1	3	prey96448	153	CCGGCATCTTTTGGAGCAGCTTTGTCGGTGGGGGTGTCTTAACACTACTGGTGG AAGTCAGCAACATCTTCCTCACCATTCGCATGATGATGAAAATCAGTAATGCCC AGGATCATCTCCTCTACCGGGTTAACAAGTATGTGAACCTGGTCATGTACTTTC TCTTCCGCCTGGCCCCTCAGGCCTACCTCACCCATTTCTTCTTGCGTTATGTGA ACCAGAGGACCCTGGGCACCTTCCTGCTGGGTATCCTGCTCATGCTGGACGTGA TGATCATAATCTACTTTTCCCGCC	891	GIFWSSFVGGGVLTLLVEVSNIF LTIRMMMKISNAQDHLLYRVNKY VNLVMYFLFRLAPQAYLTHFFLR YVNQRTLGTFLLGILLMLDVMII IYFSR
Human ADRB3_v1	3	prey2109	154	GGATCACCATTACTTTAAGTACTGCAAAATCTCAGCATTGGCTCTTCTGAAGAT GGTGATGCATGCCAGATCGGAGGCAATTTGGAAGTGATGGGTCTGATGCTAGG AAAGGTGGATGGTGAAACCATGATCATTATGGACAGTTTTGCTTTGCCTGTGGA GGGCACTGAAACCCGAGTAAATGCTCAGGCTGCTGCATATGAATACATGGCTGC ATACATAGAAAATGCAAAACAGGTTGGCCGCCTTGAAAATGCAATCGGGTGGTA TCATAGCCACCCTGGCTATGGCTGCTGGCTTTCTGGGATTGATGTTAGTACTCA GATGCTCAATCAGCAGTTCCAGGAACCATTTGTAGCAGTGGTGATTGATCCAAC AAGAACAATATCCGCAGGGAAAGTGAATCTTGGCGCCTTTAGGACATACCCAAA GGGCTACAAACCTCCTGATGAAGGACCTTCTGAGTACCAGACTATTCCACTTAA TAAAATAGAAGATTTTGGTGTACACTGCAAACAATATTATGCCTTAGAAGTCTC ATATTTCAAATCCTCTTTGGATCGCAAATTGCTTGAGCTGTTGTGGAATAAATA CTGGGTGAATACGTTGAGTTCTTCTAGCTTGCTTACTAATGCAGACTATACCAC TGGTCAGGTCTTTGATTTGTCTGAAAAGTTAG	892	DHHYFKYCKISALALLKMVMHAR SGGNLEVMGLMLGKVDGETMIIM DSFALPVEGTETRVNAQAAAYEY MAAYIENAKQVGRLENAIGWYHS HPGYGCWLSGIDVSTQMLNQQFQ EPFVAVVIDPTRTISAGKVNLGA FRTYPKGYKPPDEGPSEYQTIPL NKIEDFGVHCKQYYALEVSYFKS SLDRKLLELLWNKYWVNTLSSSS LLTNADYTTGQVFDLSEKL
Human	3	prey98989	155	AGGGGCTATTACCAAAATGTTGGGGTAGGGATATTAGGCAGCAGAAACAGATAT	893	RGYYQNVGVGILGSRNRYVYHCG

ADRB3_v1				GTCTACCATTGTGGTCTTCTAGATTTAGTAATATTTATGTGTTTCGGTTAATAT CTATACATTTACTTTTTATTTTANTTTTGGNTGATGGNGGNGGNTNNNGATTNG NGANGGGCCGGGTGACTNCTTTGGTTGGGGGGGNGTGTATGGGGGTTGNGTTAT GGGGGCTTTTNNGATNNGGNNTGGGNNGNCNNNNCCCNCCTGNCNCNNNACNNT ANNCCCNNGNTNNGTTNCTCCGNNGGNGNCTNTCCNCCAGNGGNNTANCCCCNN C		LLDLVIFMCFG*YLYIYFLFXFW XMXXXXDXXXAG*LLWLGGXVWG LXYGGFXDXXWXXXXXLXXXXXP XXXXSXGXXPPXXXPX
Human ADRB3_v1	3	prey3559	156	CAGAGCTATCAATGTTCTTCTGGAAGGAAACCCAGACACGCATTCCTGGGAGAT GGTCGGGAAGAAGAAGGGAGTCTCAGGCCAGAAGGATGGTGGCCAGACGGAATC CAATGAGGAAGGCAAAGAAAATCGAGACCGGGACAGAGACTATAGTCGGCGACG TGGTGGGCCACCAAGACGGGGGAGAGGTGCCAGCCGTGGACGAGAGTTTCGAGG TCAGGAAAATGGATTGGATGGCACCAAGAGTGGAGGGCCTTCTGGAAGAGGAAC AGAAAGAGGCAGAAGGGGCCGTGGCCGAGGCAGAGGTGGCTCTGGTAGGCGAGG AGGAAGGTTTTCTGCTCAAGGAATGGGAACCTTTAACCCAGCTGATTATGCAGA GCCAGCCAATACTGATGATAACTATGGCAATAGCAGCGGCAATACGTGGAACAA CACTGGCCACTTTGAACCAGATGATGGGACGAGTGCATGGAGGACTGCAACAGA GGAGTGGGGGACTGAAGATTGGAATGAAGATCTTTCTGAGACCAAGATCTTCAC TGCCTCTAATGTGTCTTCAGTGCCTCTGCCTGCGGAGAATGTGACAATCACTGC TGGTCAGAGAATTGACCTTGCTGTTCTGCTGGGGAAGACACCATCTACAATGGA GAATGATTCATCTAATCTGGATCCGTCTCAGGCTCCTTCTCTGGCCCAGCCTCT GGTGTTCAGTAATTCGAAGCAGACTGCCATATCACAGCCTGCTTCAGGGAACAC ATTTTCTCATCACAGTATGGTGAGCATGTTAGGGAAAGGATTTGGTGATGTCGG TGAAGCTAAAGGCGGCAGTACTACAGGCTCCCAGTTCTTGGAGCAATTCAAGAC TGCCCAAGCCCTGGCTCAGTTGGCAGCTCAGCATTCTCAGTCTGGAAGCACCAC CACCTCCTCTTGGGACATGGGCTCGACGACACAATCC	894	RAINVLLEGNPDTHSWEMVGKKK GVSGQKDGGQTESNEEGKENRDR DRDYSRRRGGPPRRGRGASRGRE FRGQENGLDGTKSGGPSGRGTER GRRGRGRGRGGSGRRGGRFSAQG MGTFNPADYAEPANTDDNYGNSS GNTWNNTGHFEPDDGTSAWRTAT EEWGTEDWNEDLSETKIFTASNV SSVPLPAENVTITAGQRIDLAVL LGKTPSTMENDSSNLDPSQAPSL AQPLVFSNSKQTAISQPASGNTF SHHSMVSMLGKGFGDVGEAKGGS TTGSQFLEQFKTAQALAQLAAQH SQSGSTTTSSWDMGSTTQS
Human ADRB3_v1	3	hgx159	157	TGCTCAGATTCTGAAAGTCATTGAAGCTTACTGCACCAGCGCCAAAACAAGGCA AACACTCAATTCAAGTTCACGCAAAGAATCTGCTCCACAAGTTTTGCTTCCAGA AGAAGAGAAAATTATAGTGGAAGAAACTAAAAGTAATGGTCAGACAGTGATAGA AGAAAAGAGTCTTGTGGATACCGTATATGCATTAAAGGATGAAGTTCAAGAATT AAGACAGGACAACAAAAAGATGAAGAAATCTCTAGAGGAAGAACAGAGAGCCCG CAAAGACCTGGAGAAGCTGGTGAGGAAAGTCCTGAAGAACATGAATGATCCTGC CTGGGATGAGACCAATCTATAA	895	AQILKVIEAYCTSAKTRQTLNSS SRKESAPQVLLPEEEKIIVEETK SNGQTVIEEKSLVDTVYALKDEV QELRQDNKKMKKSLEEEQRARKD LEKLVRKVLKNMNDPAWDETNL*
Human ADRB3_v1	3	prey3777	158	GACATCGAAAGTCAGGAAATTGAAGCTCAAGAAGGTGAAGATGATACCTTTCTA ACAGCCCAAGATGGTGAGGAAGAAGAAAATGAGAAAGATATAGCAGGTTCTGGT GATGGTACACAAGAAGTATCTAAACCTCTTCCTTCAGAAGGGAGCCTAGCTGAG GCTGATCACACAGCTCATGAAGAGATGGAAGCTCATACGACTGTGAAAGAAGCT GAGGATGACAACATCTCGGTCACAATCCAGGCTGAAGATGCCATCACTCTGGAT TTTGATGGTGATGACCTCCTAGAAACAGGTAAAAATGTGAAAATTACAGATTCT GAAGCAAGTAAGCCAAAAGATGGGCAGGACGCCATTGCACAGAGCCCGGAGAAG GAAAGCAAGGATTATGAGATGAATGCGAACCATAAAGATGGTAAGAAGGAAGAC	896	DIESQEIEAQEGEDDTFLTAQDG EEEENEKDIAGSGDGTQEVSKPL PSEGSLAEADHTAHEEMEAHTTV KEAEDDNISVTIQAEDAITLDFD GDDLLETGKNVKITDSEASKPKD GQDAIAQSPEKESKDYEMNANHK DGKKEDCVKGDPVEKEARESSKK AESGDKEKDTLKKGPSSTGASGQ

				TGCGTGAAGGGTGACCCTGTCGAGAAGGAAGCCAGAGAAAGTTCTAAGAAAGCA GAATCTGGAGACAAAGAAAAGGATACTTTGAAGAAAGGGCCCTCGTCTACTGGG GCCTCTGGTCAAGCAAAGAGCTCTTCAAAGGAATCTAAAGACAGC		AKSSSKESKDS
Human ADRB3_v1	3	prey3518	159	ATGGAGCCGCCGAATCTCTATCCGGTGAAGCTCTACGTGTACGACCTGTCCAAA GGCCTGGCCCGGCGGCTCAGCCCCATCATGCTGGGGAAACAACTGGAAGGCATC TGGCACACATCCATAGTTGTGCACAAGGATGAGTTCTTCTTCGGCAGTGGTGGT ATCTCCAGCTGCCCCCCGGGAGGGACATTGCTTGGCCCTCCAGACTCTGTGGTT GATGTGGGGAGTACAGAAGTCACAGAAGAAATCTTTCTGGAGTACCTCTCCTCC CTGGGGGAGTCCCTGTTCCGAGGTGAGGCCTACAACCTCTTTGAACACAATTGT AACACCTTCAGCAACGAAGTGGCACAGTTCCTGACTGGGCGGAAGATTCCTTCT TACATCACAGACCTGCCCT	897	MEPPNLYPVKLYVYDLSKGLARR LSPIMLGKQLEGIWHTSIVVHKD EFFFGSGGISSCPPGGTLLGPPD SVVDVGSTEVTEEIFLEYLSSLG ESLFRGEAYNLFEHNCNTFSNEV AQFLTGRKIPSYITDLP
Human ADRB3_v1	3	prey99002	160	CGGTGTGTTTTGAGGTCTCTTCCCTATGGCTGGTAGAAGTTTGAATTATCCTTA GCCCCTTGTATACTCCAGAAATTGTTTGGCCCACTGTTTTCTGGTGGTTCTTTT TCCAGCCCACACATATGCAGAATTTGTAGCCAAAGATTCTGGAGCTCACTGAAC AACTTCTTCCTCTCTTGGATTCTGACCTGTGNACCTGGGGGGGTGGNTGGGNGT GNTNGCNNGGCTGGNNNTAAAAANNGNNGNNAGTGGTAANCTGGGCTCNNGGGT NCNGTGNNNNGNGTGNNNTGNANCNCTGANTNNGGNNNCCNNNT	898	RCVLRSLPYGW*KFELSLAPCIL QKLFGPLFSGGSFSSPHICRICS QRFWSSLNNFFLSWILTCXPGGV XGXXXXAGXKXXXXW*XGLXGXV XXVXXXXXXGXX
Human ADRB3_v1	3	prey99006	161	GCACGTATAAGAAAATACCTAGAAGTCTCTATATCAAAATTTTAATAGTGATCA TGTGAGTGATGGGATTATGTATAATCTTTCTTTTGATTATCTGTACTTTCAAAG TTCACCATAATGACCATAAATGGGTTTTTTTAATACCCGGTGAGTGGCAGGCA GTCATTGCTCCAGAATCGACTAGTGACTTCACTTCAAGAGAGTCCCTGTATAAC TCTAAATACTTCAGTTAGAAAACACAGTATGCATGGTAATTAGGAATTACATCT ATATAATTCTCT	899	ARIRKYLEVSISKF***SCE*WD YV*SFF*LSVLSKFTIMTINGFF LIPGEWQAVIAPESTSDFTSRES LYNSKYFS*KTQYAW*LGITSI* FS
Human ADRB3_v1	3	prey99010	162	GCTGCCCAAAGTCTCCCTGCTGGCAAACCCTGTTCTCTTTCTTACTGTGAACAA ATCTGTCCGCAAGTGCTTGATAGGGACCCTGGTGCAACTACACCACCGGTACAG TCGCCGTAATGTGGTCAGTACAGGGAGTGGCATGGCTGAGGCCAGCCTGGAACC CAGCATACGCTCGGGTAGCCAGCTCCTGGAGATGTTCCACATTGGGCAGCAGCA GATCTTTAAGCCCACAGAGGATGAGGAAGAGAGTGAGGCCAAGTACATTGGCTC AGCTGACTTCCAGGCCAAGGAGATATTTAGCACCTGCCTGGAGGGAGAGCAGGG GCCACAGTTTGCGCCCTCTGCCCCACCCCTGAGCACAGTGGACTCTGTATCCCA GGTGGCACCGGCAGCCCCTGTGGAACCTGAAACATTCCCTGATAAGTATTCCCT GCAGTTTGGCTTTGGGCCTTTTGAGTTGCCTCCTCAGTGGCTCTCAGAGACCCG AAACAGCAAGAAGCGGCTGCTTCCCCCCTTGGGCAACACCCCAGAAGAGCTGAT CCAGACAAAGGTGCCCAAGGTAGGCAGGGTGGAGCGGAAGATGAGCAGAAACAA TAAAGTGAGCATTTTTCCAAAGGTGGATTCCTAG	900	LPKVSLLANPVLFLTVNKSVRKC LIGTLVQLHHRYSRRNVVSTGSG MAEASLEPSIRSGSQLLEMFHIG QQQIFKPTEDEEESEAKYIGSAD FQAKEIFSTCLEGEQGPQFAPSA PPLSTVDSVSQVAPAAPVEPETF PDKYSLQFGFGPFELPPQWLSET RNSKKRLLPPLGNTPEELIQTKV PKVGRVERKMSRNNKVSIFPKVD S*
Human ADRB3_v1	3	prey99016	163	CTAGCTCTTCTTGAGAAGCTGGGATTTGAAGGAGCTATCCTGAGATCTGTACTG CTAGTAAGTGACTGATAACATTATAAACTGGATCGGTCCCTGAGTTCAGAGACT GAGTTGCAATTGAGTGAAAAATAGACAACGAAATCTTGAAGAATTGCACGGAGG	901	LALLEKLGFEGAILRSVLLVSD* *HYKLDRSLSSETELQLSEK*TT KS*RIARRCKPSLFGSXNNIGXT

				TGCAAGCCAAGTTTATTTGGCTCTNCAAATAATATTGGTTGNACTAAGNAATTG GTGAACGNAACNTGTGATGGGACTGGGTGTTGAGGGNAGNGTGTGTGGGGCT GGGGGGTGTGGGTGGGGGT		KXLVNXTCDGTGC*GXXVCGAGG CGWG
Human ADRB3_v3	4	prey94623	164	GGGCTCGGAGAGCGGGGGCAGTGCAGTGGACTCAGTGGCTGGCGAGCACAGTGT ATCTGGCCGGAGCAGTGCTTATGGCGATGCTACAGCTGAGGGGCATCCGGCTGG ACCAGGAAGTGTCAGCTCAAGCACTGGAGCCATCAGCACCACCACTGGGCACCA GGAGGGAGATGGCTCCGAGGGAGAAGGAGAAGGAGAAACTGAAGGAGATGTCCA CACTAGCAACAGGCTGCACATGGTCCGTCTAATGCTGTTGGAGAGATTACTGCA GACCCTGC	902	GSESGGSAVDSVAGEHSVSGRSS AYGDATAEGHPAGPGSVSSSTGA ISTTTGHQEGDGSEGEGEGETEG DVHTSNRLHMVRLMLLERLLQTL
Human ADRB3_v3	4	prey2109	165	GGATCACCATTACTTTAAGTACTGCAAAATCTCAGCATTGGCTCTTCTGAAGAT GGTGATGCATGCCAGATCGGGAGGCAATTTGGAAGTGATGGGTCTGATGCTAGG AAAGGTGGATGGTGAAACCATGATCATTATGGACAGTTTTGCTTTGCCTGTGGA GGGCACTGAAACCCGAGTAAATGCTCAGGCTGCTGCATATGAATACATGGCTGC ATACATAGAAAATGCAAAACAGGTTGGCCGCCTTGAAAATGCAATCGGGTGGTA TCATAGCCACCCTGGCTATGGCTGCTGGCTTTCTGGGATTGATGTTAGTACTCA GATGCTCAATCAGCAGTTCCAGGAACCATTTGTAGCAGTGGTGATTGATCCAAC AAGAACAATATCCGCAGGGAAAGTGAATCTTGGCGCCTTTAGGACATACCCAAA GGGCTACAAACCTCCTGATGAAGGACCTTCTGAGTACCAGACTATTCCACTTAA TAAAATAGAAGATTTTGGTGTACACTGCAAACAATATTATGCCTTAGAAGTCTC ATATTTCAAATCCTCTTTGGATCGCAAATTGCTTGAGCTGTTGTGGAATAAATA CTGGGTGAATACGTTGAGTTCTTCTAGCTTGCTTACTAATGCAGACTATACCAC TGGTCA	903	DHHYFKYCKISALALLKMVMHAR SGGNLEVMGLMLGKVDGETMIIM DSFALPVEGTETRVNAQAAAYEY MAAYIENAKQVGRLENAIGWYHS HPGYGCWLSGIDVSTQMLNQQFQ EPFVAVVIDPTRTISAGKVNLGA FRTYPKGYKPPDEGPSEYQTIPL NKIEDFGVHCKQYYALEVSYFKS SLDRKLLELLWNKYWVNTLSSSS LLTNADYTTG
Human ADRB3_v3	4	prey51967	166	CAACTTCTCTGAACTACAGAGTCAGATGCAGCGACAACTTTTGTCTAACCCTGA AATGATGGTCCAGATCATGGAAAATCCCTTTGTTCAGAGCATGCTCTCAAATCC TGACCTGATGAGACAGTTAATTATGGCCAATCCACAAATGCAGCAGTTGATACA GAGAAATCCAGAAATTAGTCATATGTTGAATAATCCAGATATAATGAGACAAAC GTTGGAACTTGCCAGGAATCCAGCAATGATGCAGGAGATGATGAGGAACCAGGA CCGAGCTTTGAGCAACCTAGAAAGCATCCCAGGGGGATATAATGCTTTAAGGCG CATGTACACAGATATTCAGGAACCAATGCTGAGTGCTGCACAAGAGCAGTTTGG TGGTAATCCATTTGCTTCCTTGGTGAGCAATACATCCTCTGGTGAAGGTAGTCA ACCTTCCCGTACAGAAAATAGAGATCCACTACCCAATCCATGGGCTCCACAGAC TTCCCAGAGTTCATCAGCTTCCAGCGGCACTGCCAGCACTGTGGGTGGCACTAC TGGTAGTACTGCCAGTGGCACTTCTGGGCAGAGTACTACTGCGCCAAATTTGGT GCCTGGAGTAGGAGCTAGTATGTTCAACACACCAGGAATGCAGAGCTTGTT	904	NFSELQSQMQRQLLSNPEMMVQI MENPFVQSMLSNPDLMRQLIMAN PQMQQLIQRNPEISHMLNNPDIM RQTLELARNPAMMQEMMRNQDRA LSNLESIPGGYNALRRMYTDIQE PMLSAAQEQFGGNPFASLVSNTS SGEGSQPSRTENRDPLPNPWAPQ TSQSSSASSGTASTVGGTTGSTA SGTSGQSTTAPNLVPGVGASMFN TPGMQSL
Human ADRB3_v3	4	prey2133	167	CTTTCATTTTGGATCAGGATGATTTGGAAAATCCAATGCTGGAAACAGCTTCCA AGTTGCTCTTATCAGGTACTGCTGATGGTGCAGACCTCAGGACAGTAGATCCAG AAACACAGGCTAGACTGGAAGCTTTACTAGAAGCTGCAGGAATAGGAAAATTGT CCACGGCTGATGGTAAAGCCTTTGCAGATCCTGAAGTACTTCGGAGGTTGACAT CGTCTGTTAGTTGTGCGTTGGATGAAGCTGCTGCTGCACTTACCCGTATGAGAG	905	FILDQDDLENPMLETASKLLLSG TADGADLRTVDPETQARLEALLE AAGIGKLSTADGKAFADPEVLRR LTSSVSCALDEAAAALTRMRAES TANAGQSDNRSLAEACSEGDVNA

				CTGAAAGCACAGCAAATGCAGGGCAGTCGGACAACCGCAGTTTGGCAGAAGCCT GTTCAGAAGGAGATGTAAATGCTGTGCGAAAGTTACTCATTGAAGGGCGAAGTG TAAATGAACACACAGAGGAAGGGGAGAGCCTCCTTTGTTTAGCTTGTTCTGCTG GATACTATGAGCTTGCACAGGTTTTGTTGGCAATGCATGCAAATGTGGAAGATA GGGGAATCAAAGGTGACATTACACCTTTAATGGCTGCTGCTAATGGAGGACATG TCAAAATTGTGAAGTTGCTGCTAGCTCATAAAGCAGATGTTAATGCACAGTCTT CAACAGGCAATACAGCACTTACATATGCTTGTGCTGGAGGCTATGTAGATGTTG TAAAGGTGCTCTTGGAATCCGGTGCTAGTATTGAGGACCATAATGAAAATGGTC ATACCCCTCTTATGGAAGCTGGAAGTGCTGGACATGTGGAAGTAGCCAGATTGC TGCTAGAAAATGGGGCTGGCATTAATACGCATTCTAATGAATTTAAAGAGAGTG CCCTTACCTTAGCTTGTTACAAAGGACACTTAGAGATGGTGCGATTTCTTTTGG AAGCAGGCGCGGATCAAGAGCAT		VRKLLIEGRSVNEHTEEGESLLC LACSAGYYELAQVLLAMHANVED RGIKGDITPLMAAANGGHVKIVK LLLAHKADVNAQSSTGNTALTYA CAGGYVDVVKVLLESGASIEDHN ENGHTPLMEAGSAGHVEVARLLL ENGAGINTHSNEFKESALTLACY KGHLEMVRFLLEAGADQEH
Human ADRB3_v3	4	prey4578	168	GAGCCGTCCTGGGGAGGTGTGCTCTGCTCTCAACCTCTGCGAGTCTCTCCAGAA GCACCTAGCAGAGCTGAATCACCAGAAGCAGCTGGAGTCCAATAAGATCCCAGA GCTGGACATGACTGAGGTGGTGGCCCCCTTCATGGCCAACATCCCTCTCCTCCT CTACCCTCAGGACGGCCCCCGCAGCAAGCCCCAGCCAAAGGATAATGGGGACGT TTGCCAGGACTGCATTCAGATGGTGACTGACATCCAGACTGCTGTACGGACCAA CTCCACCTTTGTCCAGGCCTTGGTGGAACATGTCAAGGAGGAGTGTGACCGCCT GGGCCCTGGCATGGCCGACATATGCAAGAACTATATCAGCCAGTATTCTGAAAT TGCTATCCAGATGATGATGCACATGCAACCCAAGGAGATCTGTGCGCTGGTTGG GTTCTGTGATGAGGTGAAAGAGATGCCCA	906	SRPGEVCSALNLCESLQKHLAEL NHQKQLESNKIPELDMTEVVAPF MANIPLLLYPQDGPRSKPQPKDN GDVCQDCIQMVTDIQTAVRTNST FVQALVEHVKEECDRLGPGMADI CKNYISQYSEIAIQMMMHMQPKE ICALVGFCDEVKEMP
Human ADRB3_v3	4	prey44830	169	GTCAATAGAAGTTCTACGGGAAGAAGCATGTGACTGTTTATTTGAAGTTGTAAA TAAAGGAATGGACCCTGTTGATAAAATGAAACTAGTGGAATCTTTGTGTCAAGT ATTACAGTCTGCTGGGTTTTTCAGCATTGACCAGGAAGAAGATGTTGACTTCCT GGCCAGATTTTCTAAGTTGGTAAATGGAATGGGACAGTCATTGATAGTTAGTTG GAGTAAATTAATTAAGAATGGGGATATTAAGAATGCTCAAGAGGCACTACAAGC TATTGAAACAAAAGTGGCACTGATGTTGCAGCTACTAATTCATGAGGATGATGA TATTTCTTCTAATATTATTGGATTTTGTTACGATTATCTTCATATTTTGAAACA GCTTACAGTGCTCTCGGATCAGCAAAAAGCTAATGTAGAGGCAATCATGTTGGC CGTTATGAAAAAATTGACTTACGATGAAGAATATAACTTTGAAAATGAGGGTGA AGATGAAGCCATGTTTGTAGAATATAGAAAACAACTGAAGTTACTGTTGGACAG GCTTGCTCAAGTTTCACCAGAGTTACTACTGGCCTCTGTTCGCAGAGTTTTTAG TTCTACACTGCAGAATTGGCAGACTACACGGTTTATGGAAGTTGAAGTAGCAAT AAGATTGCTGTATATGTTGGCAGAAGCTCTTCCAGTATCTCATGGTGCTCACTT CTCAGGTGATGTTTCAAAAGCTAGTGCTTTGCAGGATATGATGCGAACTCTGGT AACATCAGGAGTCAGTTCCTATCAGCATACATCTGTGACATTGGAGTTCTTCGA AACTGTTGTTAGATATGAAAAGTTTTTCACAGTTGAACCTCAGCACATTCCATG TGTACTAATGGCTTTCTTAGATCACAGAGGTCTGCGGCATTCCAGTGCAAAAGT TCGGAGCAGGACGGCTTACCTGTTTTCTAGATTTGTCAAATCTCTCAATAAGCA	907	SIEVLREEACDCLFEVVNKGMDP VDKMKLVESLCQVLQSAGFFSID QEEDVDFLARFSKLVNGMGQSLI VSWSKLIKNGDIKNAQEALQAIE TKVALMLQLLIHEDDDISSNIIG FCYDYLHILKQLTVLSDQQKANV EAIMLAVMKKLTYDEEYNFENEG EDEAMFVEYRKQLKLLLDRLAQV SPELLLASVRRVFSSTLQNWQTT RFMEVEVAIRLLYMLAEALPVSH GAHFSGDVSKASALQDMMRTLVT SGVSSYQHTSVTLEFFETVVRYE KFFTVEPQHIPCVLMAFLDHRGL RHSSAKVRSRTAYLFSRFVKSLN KQMNPFIEDILNRIQDLLELSPP ENGHQSLLSSDDQLFIYETAGVL IVNSEYPAERKQALMRNLLTPLM EKFKILLEKLMLAQDEERQASLA

				AATGAATCCTTTCATTGAGGATATTTGAATAGAATACAAGATTTATTAGAGCT TTCTCCACCTGAGAATGGCCACCAGTCCTTACTGAGCAGCGATGATCAACTTTT TATTTATGAGACAGCTGGAGTGCTGATTGTTAATAGTGAATATCCGGCAGAAAG GAAACAAGCCTTAATGAGGAATCTGTTGACTCCACTAATGGAGAAGTTTAAAAT TCTGTTAGAAAAGTTGATGCTGGCACAAGATGAAGAAAGGCAAGCCTCTCTAGC AGACTGTCTTAACCATGCTGTTGGATTTGCAAGTCGAACCAGTAAAGCTTTCAG CAACAAACAGACTGTGAAACAATGTGGCTGTTCCGAAGTTTATCTGGACTGTTT ACAGACATTCTTGCCAGCCCTCAGTTGTCCCTTACAAAAGGATATTCTCAGAAG TGGAGTCCGTACTTTCCTTCATCGAATGATTATTTGCCTGGAGGAAGAAGTTCT TCCGTTCATTCCATCTGCTTCAGAACATATGCTCAAAGATTGTGAAGCAAAAGA TCTCCAGGAGTTCATTCCTCTTATCAACCAGATTACGGCCAAA		DCLNHAVGFASRTSKAFSNKQTV KQCGCSEVYLDCLQTFLPALSCP LQKDILRSGVRTFLHRMIICLEE EVLPFIPSASEHMLKDCEAKDLQ EFIPLINQITAK
Human ADRB3_v3	4	prey1687	170	GCATCTGTACAGCATCCACCTTGCCGAACAGCCTGAGGACTGTACTATGCAGCT GGCTGACCACATTAAGTTCACGCAGAGTGCTCTGGACTGCATGAGTGTGGAGGT AGGACGGCTGCGTGCCTTCTTGCAGGGTGGGCAGGAGGCTACAGATATTGCCCT CCTGCTCCGGGATCTGGAAACTTCATGCAGTGACATCCGCCAGTTCTGCAAGAA GATCCGAAGGCGAATGCCAGGGACAGATGCTCCTGGGATCCCAGCTGCACTGGC CTTTGGACCACAGGTATCTGACACGCTCCTAGACTGCAGGAAACACTTGACGTG GGTCGTGGCTGTGCTGCAGGAGGTGGCAGCTGCTGCTGCCCAGCTCATTGCCCC ACTGGCAGAGAATGAGGGGCTACTTGTGGCTGCTCTGGAGGAACTGGCTTTCAA AGCAAGCGAGCAGATCTATGGGACCC	908	HLYSIHLAEQPEDCTMQLADHIK FTQSALDCMSVEVGRLRAFLQGG QEATDIALLLRDLETSCSDIRQF CKKIRRRMPGTDAPGIPAALAFG PQVSDTLLDCRKHLTWVVAVLQE VAAAAAQLIAPLAENEGLLVAAL EELAFKASEQIYGT
Human ADRB3_v3	4	prey2557	171	GCAGAGGACCCGTGAGGACATTGAAGGCAGCCACTGGAATGAGGGCTTGCTGCT GGGGCGGCCCCCCGAGGAGCCTGAGCAGCCCCTCACCGAGAACTCGCTGCTGGA AGTCCTGGATGGGGCGGTCATGATGTACAACCTCAGCGTACACCAGCAGCTGGG CAAGATGGTGGGTGTCTCCGATGATGTCAATGAATACGCTATGGCTCTGAGGGA CACAGAGGACAAGCTCCGCCGGTGCCCCAAGAGGAGGAAGGACATCCTTGCAGA GTTGACCAAGAGCCAGAAGGTTTTCTCAGAAAAGCTGGACCACCTGAGCCGCCG TCTTGCCTGGGTCCATGCCACTGTCTACTCCCAGGAGAAGATGCTGGACATCTA CTGGCTGCTGCGCGTCTGCCTGCGGACCATTGAGCACGGTGATCGCACAGGGTC TCTCTTTGCCTTCATGCCCGAGTTCTACCTGAGCGTGGCCATCAACAGCTACAG TGCTCTCAAGAATTACTTTGGTCCCGTGCACAGCATGGAGGAGCTCCCAGGCTA TGAAGAGACCCTGACCCGCCTGGCTGCCATTCTCGCCAAAC	909	QRTREDIEGSHWNEGLLLGRPPE EPEQPLTENSLLEVLDGAVMMYN LSVHQQLGKMVGVSDDVNEYAMA LRDTEDKLRRCPKRRKDILAELT KSQKVFSEKLDHLSRRLAWVHAT VYSQEKMLDIYWLLRVCLRTIEH GDRTGSLFAFMPEFYLSVAINSY SALKNYFGPVHSMEELPGYEETL TRLAAILAK
Human ADRB3_v3	4	prey96222	172	TCTTATACATTATCCTTTTTTGATTCAGACTCTTTCAGAAAAGATTCATTAAGA TTCACTTTGACCTAAAGTAGCCCCTAGAGGTGTAGCTTGATATCTAGGTTGTTC CCCAGTCCAGAGTTCTACTCTGTGCTAAACTTTACCTTTTTCAACTCCAGGGG TGTGGAAGAGGGCACTCCCTNGANCCTCACTGCCTTATACTGACAATTGATNTN TGTAACTAACNCNTGATCCACAAGCTTATTTTAANTATACGTGNGANTNGACTN AAAANNTACGGNNCCNNTATNGTNTNNNGTNCATAGTGGNTCGCTGGATNATNG CCNTTTGTCNGGCTGNTAGNNGGGNGGGCAGGNGNNGTAGGGGGGCTGAGGGGG GAGGAGAGGGNGGCNNGGGGCGGGAGGGGGGGCGNGGNGGNGNGAGGNNCCNGN	910	SYTLSFFDSDSFRKDSLRFTLT* SSP*RCSLISRLFPSPEFYSVLN FTFFQLQGCGRGHSLXPHCLILT IDXCN*XXIHKLILXIRXXXLKX YGXXXVXXX*WXAGXXPFVXLXX GXAGXVGGLRGEERXAXGGRGGX XXXGXXGXXXGRLG

				GGGGANNNNGNCGGNCGGCTNGGTG		
Human ADRB3_v3	4	prey700	173	ATGGGAATTGGTCTTTCTGCTCAAGGTGTGAACATGAATAGACTACCAGGTTGG GATAAGCATTCATATGGTTACCATGGGGATGATGGACATTCGTTTTGTTCTTCT GGAACTGGACAACCTTATGGACCAACTTTCACTACTGGTGATGTCATTGGCTGT TGTGTTAATCTTATCAACAATACCTGCTTTTACACCAAGAATGGACATAGTTTA GGTATTGCTTTCACTGACCTACCGCCAAATTTGTATCCTACTGTGGGGCTTCAA ACACCAGGAGAAGTGGTCGATGCCAATTTTGGGCAACATCCTTTCGTGTTTGAT ATAGAAGACTATATGCGGGAGTGGAGAACCAAAATCCAGGCACAGATAGATCGA TTTCCTATCGGAGATCGAGAAGGAGAATGGCAGACCATGATACAAAAAATGGTT TCATCTTATTTAGTCCACCATGGGTACTGTGCCACAGCAGAGGCCTTTGCCAGA TCTACAGACCAGACCGTTCTAGAAGAATTAGCTTCCATTAAGAATAGACAAAGA ATTCAGAAATTGGTATTAGCAGGAAGAATGGGAGAAGCCATTGAAACAACACAA CAGTTATACCCAAGTTTACTTGAAAGAAATCCTAATCTCCTTTTCACATTAAAA GTGCGTCAGTTTATAGAAATGGTGAATGGTACAGATAGTGAAGTACGATGTTTG GGAGGCCGAAGTCCAAAGTCTCAAGACAGTTATCCTGTTAGTCCTCGACCTTTT AGTAGTCCAAGTATGAGCCCCAGCC	911	MGIGLSAQGVNMNRLPGWDKHSY GYHGDDGHSFCSSGTGQPYGPTF TTGDVIGCCVNLINNTCFYTKNG HSLGIAFTDLPPNLYPTVGLQTP GEVVDANFGQHPFVFDIEDYMRE WRTKIQAQIDRFPIGDREGEWQT MIQKMVSSYLVHHGYCATAEAFA RSTDQTVLEELASIKNRQRIQKL VLAGRMGEAIETTQQLYPSLLER NPNLLFTLKVRQFIEMVNGTDSE VRCLGGRSPKSQDSYPVSPRPFS SPSMSPS
Human ADRB3_v3	4	prey96234	174	AGCTTTATTCTCAACCTTCTAAAGAAAGATCCCACTTTTAAATCTCTTCTGGAA TAGCCTCTTAGCTCAAAGCTTATTCATGTATTTGATTATTTAAGAAATTTTCC CTTATTACAAACNCCAGNGCGGGGGGGGANGNCCTCATANATANCCAAGCAATG ANNGATCCTGCTGGGNGGGGGGGNGGGNNNCNNTCACTNNTNTNNAANNNGNGG NCTGGNGNNGCGANGGNNGCGGNGCGAGCGGNGGGGTTNNNCNCGGTGNNGNGT GGGGACGNAGNTGGGGGGGCGNNNNGNNGCGCNNNAGAGGAGGGNNGTNNNGCG GCCGCCG	912	SFILNLLKKDPTFKSLLE*PLSS KLIHVF*LFKKFSLITNXXAGGX XLIXXQAMXDPAGXGGGXXSLXX XXXXGXAXXAXRAXGXXXVXXGD XXGGAXXXAXEEGXXAAA
Human ADRB3_v3	4	prey4594	175	CATGGAACGACTGCAACAGGTTCTTCAGATGGAGTCACATATCCAGAGCACATC CGATAGAATCCAGTTCAATGACCTTCAGTCTTTACTCTGTGCAACTCTTCAGAA TGTTCTTCGGAAAGTGCAACATCAAGATGCTTTGCAGATCTCTGATGTGGTTAT GGCCTCCCTGTTAAGGATGTTCCAAAGCACAGCTGGGTCTGGGGGAGTACAAGA GGATGCCCTGATGGCAGTTAGCACACTGGTGGAAGTGTTGGGTGGTGAATTCCT CAAGTACATGGAGGCCTTTAAACCCTTCCTGGGCATTGGATTAAAAAATTATGC TGAATACCAGGTTTGTTTGGCAGCTGTGGGCTTAGTGGGAGACTTGTGCCGTGC CCTGCAATCCAACATCATACCTTTCTGTGACGAGGTGATGCAGCTGCTTCTGGA AAATTTGGGGAATGAGAACGTCCACAGGTCTGTGAAGCCGCAGATTCTGTCAGT GTTTGGTGATATTGCCCTTGCTATTGGAGGAGAGTTTAAAAAATACTTAGAGGT TGTATTGAATACTCTTCAGCAGGCCTCCCAAGCCCAGGTGGACAAGTCAGACTA TGACATGGTGGATTATCTGAATGAGCTAAGGGAAAGCTGCTTGGAAGCCTATAC TGGAATCGTCCAGGGATTAAAGGGGGATCAGGAGAACGTAC	913	HGTTATGSSDGVTYPEHIR*NPV Q*PSVFTLCNSSECSSESATSRC FADL*CGYGLPVKDVPKHSWVWG STRGCPDGS*HTGGSVGW*IPQV HGGL*TLPGHWIKKLC*IPGLFG SCGLSGRLVPCPAIQHHTFL*RG DAAASGKFGE*ERPQVCEAADSV SVW*YCPCYWRRV*KILRGCIEY SSAGLPSPGGQVRL*HGGLSE*A KGKLLGSLYWNRPGIKGGSGER
Human ADRB3_v3	4	prey96420	176	TCCCCGCGCCCCCATCTTTCCCTCCCTCCCTCCCACCCCTCTGCAGCGATGGCA GAGGAACAACAACAGCCGCCACCACAGCAGCCTGATGCCCATCAGCAGCTTCCC CCCAGCGCCCCCAACTCGGGGGTGGCCCTGCCAGCCCTTGTGCCCGGGCTGCCA	914	SPRPHLSLPPSHPSAAMAEEQQQ PPPQQPDAHQQLPPSAPNSGVAL PALVPGLPGTEASALQHKIKNSI

				GGGACAGAGGCCAGCGCGCTGCAACACAAGATCAAGAACTCCATCTGCAAAACT GTACAATCTAAAGTGGACTGCATTTTGCAAGAAGTTGAGAAGTTTACAGACCTA GAGAAACTCTACCTCTACCTTCAGCTGCCTTCTGGTCTCAGCAATGGAGAGAAA AGTGATCAGAATGCCATGTCATCTAGTCGGGCACAACAAATGCATGCCTTTTCC TGGATTCGGAATACCCTAGAGGAACATNCG		CKTVQSKVDCILQEVEKFTDLEK LYLYLQLPSGLSNGEKSDQNAMS SSRAQQMHAFSWIRNTLEEHX
Human ADRB3_v3	4	prey94498	177	ATGACGTCTATTATCAAATTAACTACCCTTTCTGGGGTCCAAGAAGAATCTGCC CTTTGCTATCTTCTCCAAGTTGATGAGTTTAGATTTTTATTGGACTGTGGCTGG GATGAGCACTTTTCTATGGATATTATTGATTCCCTGAGGAAGCATGTTCACCAG ATTGATGCAGTGCTGTTGTCTCACCCTGATCCTCTCCACCTTGGTGCCCTCCCG TATGCTGTCGGAAAGTTGGGTCTGAACTGTGCTATCTATGCAACCATTCCTGTT TATAAAATGGGACAGATGTTCATGTATGATCTTTATCAGTCTCGACACAATACA GAAGATTTTACACTCTTTACATTAGATGATGTGGATGCAGCCTTTGATAAAATA CAGCAGCTAAAATTCTCTCAGATTGTGAATTTGAAAGGTAAAGGACATGGCCTG TCTATCACACCTCTGCCAGCTGGTCATATGATAGGTGGAACAATATGGAAAATA GTCAAAGATGGAGAAGAAGAAATTGTTTATGCAGTTGACTTCAACCACAAGAGG GAGATCCATTTAAATGGATGTTCCCTGGAAATGCTAAGCAGGCCTTCCCTACTT ATCACAGATTCATTCAATGCTACATATGTACAGCCTAGAAGAAAACAGAGAGAT GAGCAGCTTCTGACAAATGTCCTGGAAACACTTCGAGGTGATGGAAATGTGTTA ATAGCAGTGGACACAGCAGGCAGAGTTTTGGAACTTGCTCAACTTCTTGATCAG ATTTGGAGGACTAAAGATGCAGGATTGGGTGTTTACTCATTGGCACTCCTAAAT AATGTCAGTTACAATGTGGTGGAGTTTTCTAAGTCCCAGGTAGAATGGATGAGT GATAAATTGATGAGATGTTTTGAAGACAAAAGAAATAATCCGTTTCAGTTTCGC CATCTCTCTTTATGTCATGGTCTTTCTGACTTGGCCCGTGTACCTAGCCCTAAA GTTGTACTTGCCAGCCAACCTGACCTGGAATGCGGATTTTCAAGGGATCTCTTT ATTCAGTGGTGTCAGGACCCTAAAAACTCAATCATTCTAACCTACAGAACTACT CCTGGGACTTTAGCACGTTTCCTAATTGATAATCCTTCTGAAAAAATTACAGAA ATAGAGTTGAGGAAACGTGTGAAGCTTGAAGGGAAAGAACTTGAAGAATACTTG GAAAAAGAGAAACTAAAGAAAGAAGCTGCCAAAAAGCTTGAGCAGTCAAAAGAG GCAGATATAGATTCCAGTGATGAGAGTGATATTGAGGAAGATATTGACCAGCCA TCAGCTCATAAGACGAAGCATGACTTGATGATGAAAGGTGAAGGCAGTCGTAAA GGAAGTTTTTTCAAACAGGCAAAAAAGTCCTATCCTATGTTTCCTGCCCCAGAA GAAAGAATTAAATGGGATGAATATGGAGAGATTATCAAACCAGAGGATTTCTTA GTGCCAGAGCTTCAAGCTACTGAAGAAGAAAAAAGCAAATTAGAATCTGGTTTG ACAAATGGAGATGAACCTATGGATCAGGATTTATCTGATGTTCCTACTAAATGT ATTTCTACAACAGAGTCTATTGAAATAAAAGCCCGGGTTACCTACATAGACTAT GAAGGACGCTCTGATGGGGATTCCATTAAAAAAATCATTAATCAGATGAAACCA CGACAGTTGATCATCGTCCATGGCCCACCAGAGGCCAGTCAAGATCTGGCAGAG TGCTGTCGCGCCTTTGGTGGGAAAGATATTAAAGTGTACATGCCAAAGCTACAT GAAACAGTTGATGCCACTAGTGAAACTCACATCTACCAGGTGAGGTTAAAAGAC	915	MTSIIKLTTLSGVQEESALCYLL QVDEFRFLLDCGWDEHFSMDIID SLRKHVHQIDAVLLSHPDPLHLG ALPYAVGKLGLNCAIYATIPVYK MGQMFMYDLYQSRHNTEDFTLFT LDDVDAAFDKIQQLKFSQIVNLK GKGHGLSITPLPAGHMIGGTIWK IVKDGEEEIVYAVDFNHKREIHL NGCSLEMLSRPSLLITDSFNATY VQPRRKQRDEQLLTNVLETLRGD GNVLIAVDTAGRVLELAQLLDQI WRTKDAGLGVYSLALLNNVSYNV VEFSKSQVEWMSDKLMRCFEDKR NNPFQFRHLSLCHGLSDLARVPS PKVVLASQPDLECGFSRDLFIQW CQDPKNSIILTYRTTPGTLARFL IDNPSEKITEIELRKRVKLEGKE LEEYLEKEKLKKEAAKKLEQSKE ADIDSSDESDIEEDIDQPSAHKT KHDLMMKGEGSRKGSFFKQAKKS YPMFPAPEERIKWDEYGEIIKPE DFLVPELQATEEEKSKLESGLTN GDEPMDQDLSDVPTKCISTTESI EIKARVTYIDYEGRSDGDSIKKI INQMKPRQLIIVHGPPEASQDLA ECCRAFGGKDIKVYMPKLHETVD ATSETHIYQVRLKDSLVSSLQFC KAKDAELAWIDGVLDMRVSKVDT GVILEEGELKDDGEDSEMQVEAP SDSSVIAQQKAMKSLFGDDEKET GEESEIIPTLEPLPPHEVPGHQS VFMNEPRLSDFKQVLLREGIQAE FVGGVLVCNNQVAVRRTETGRIG LEGCLCQDFYRIRDLLYEQYAIV

				TCACTTGTCAGCTCTCTTCAGTTTTGTAAGGCAAAAGATGCTGAATTAGCTTGG ATAGATGGTGTCTTAGATATGAGAGTTTCCAAAGTGGACACAGGGGTTATTTTA GAAGAAGGAGAACTAAAGGATGATGGAGAAGACTCAGAGATGCAAGTGGAAGCT CCCTCAGATTCTAGCGTTATAGCACAACAAAAGGCCATGAAAAGTCTGTTCGGA GATGATGAAAAAGAAACAGGTGAAGAAAGTGAGATCATTCCTACTTTGGAACCC TTGCCACCTCATGAGGTTCCTGGACATCAGTCAGTTTTTATGAATGAACCAAGG CTGTCAGACTTCAAGCAAGTTCTCTTACGGGAGGGGATTCAAGCTGAATTTGTA GGAGGTGTACTTGTTTGCAACAATCAAGTAGCAGTCCGCAGAACGGAAACTGGA CGCATTGGATTAGAAGGCTGCCTTTGTCAAGATTTTTATAGGATAAGAGACCTT TTATATGAACAATATGCCATTGTATAA		*
Human ADRB3_v3	4	prey96254	178	CGGTGTGTTTTGAGGTCTCTTCCCTATGGCTGGTAGAAGTTTGAATTATCCTTA GCCCCTTGTATACTCCAGTAAATTGTTTGGCCCACTGTTTTCTGGTGGTTCTTT TTCCANCCCACNCGTGNGGGGGGGGGGGGGNNCCAAACATTNTGGNGCTCACTG ANCNACTTGTTGCTNTGNTGGATTCTGGCCTGNAANTACTGGNATGNNCCAGCC TCNCTGNNGNNTGGTGCNNGGGGGGTGGGNCAGNTGGGNGCGGNNNGGGGATGG GGNTAGGNNTNTTGGTGCNGC	916	RCVLRSLPYGW*KFELSLAPCIL Q*IVWPTVFWWFFFXPTRXGGGG XQTXWXSLXXLLLXWILAXXYWX XPASLXXGAXGVGQXGAXXGWG* XXWCX
Human ADRB3_v3	4	prey96258	179	CGGAGATTATTATTATTAATTTTTGAGACAGAGTCTAGCTCTGTCGCCCAGAAA CAGTTTTTCTAAATGAAAAGTTTAGAATTTTAAAAATTGTATAGAAAACACAAG CAGGCTGCCGCTTGTAAGAGAATGCTGCGTGCACAACTATTTCAGCAATTTAAC AGGTGCATGAATGAACTTATTTTCCAAAGGAAAAACAAGTGTAACAAAAATAAC TTGACTATAGACGGATGGTTAAGATGGAGACTATGCTGACNNNTGGNCAGCCT	917	RRLLLLIFETESSSVAQKQFF*M KSLEF*KLYRKHKQAAACKRMLR AQLFQQFNRCMNELIFQRKNKCN KNNLTIDGWLRWRLC*XXXS
Human ADRB3_v3	4	prey96260	180	GAACCTAGACTATTACCAAACCATGTCTGGAGTGAAGGAGGCCGACTTCAAGGA TCTTGAGACTCAACCCCATATGCAAGAATTTCGACTGGGAGTGCGACTCTACTC AGAGGAACAGCCACAGGAAGCTGTGCCCCACCTAGAGGCGGCGCTGCAAGAATA CTTTGTGGCCTATGAGGAGTGCCGTGCCCTCTGCGAAGGGCCCTATGACTACGA TGGCTACAACTACCTTGAGTACAACGCTGACCTCTTCCAGGCCATCACAGATCA TTACATCCAGGTCCTCAACTGTAAGCAGAACTGTGTCACGGAGCTTGCTTCCCA CCCAAGTCGAGAGAAGCCCTTTGAAGACTTCCTCCCATCGCATTATAATTATCT GCAGTTTGCCTACTATAACATTGGGAATTATACACAAGCTGGTGAATGTGCCAA GACCTATCTTCTCTTCTTCCCCAATGACGAGGTGATGAACCAAAATTTGGCCTA TTATGCAGCTATGCTTGGAGAAGAACACACCAGATCCATCGGCCCCCGTGAGCA GGGCACCTAG	918	NLDYYQTMSGVKEADFKDLETQP HMQEFRLGVRLYSEEQPQEAVPH LEAALQEYFVAYEECRALCEGPY DYDGYNYLEYNADLFQAITDHYI QVLNCKQNCVTELASHPSREKPF EDFLPSHYNYLQFAYYNIGNYTQ AGECAKTYLLFFPNDEVMNQNLA YYAAMLGEEHTRSIGPREQGT*
Human ADRB3_v3	4	prey4629	181	CATTGAGATCCAGCAGCAGTACAGTGATGTCAACAACCGCTGGGATGTCGACGA CTGGGACAATGAGAACAGCTCTGCGCGGCTTTTTGAGCGGTCCCGCATCAAGGC TCTGGCAGATGAGCGTGAAGCCGTGCAGAAGAAGACCTTCACCAAGTGGGTCAA TTCCCACCTTGCCCGTGTGTCCTGCCGGATCACAGACCTGTACACTGACCTTCG AGATGGACGGATGCTCATCAAGCTGCTGGAGGTCCTCTCTGGAGAGAGGCTGCC TAAACCCACCAAGGGACGAATGCGCATCCACTGCTTAGAGAATGTGGACAAGGC CCTTCAGTTCCTGAAGGAGCAGAGAGTCCATCTTGAGAACATGGGGTCCCATGA	919	IEIQQQYSDVNNRWDVDDWDNEN SSARLFERSRIKALADEREAVQK KTFTKWVNSHLARVSCRITDLYT DLRDGRMLIKLLEVLSGERLPKP TKGRMRIHCLENVDKALQFLKEQ RVHLENMGSHDIVDGNHRLTLGL IWTIILRFQIQDISVETEDNKEK

				CATCGTGGATGGAAACCACCGGCTGACCCTTGGCCTCATCTGGACCATCATCCT GCGCTTCCAGATCCAGGATATCAGTGTGGAAACTGAAGACAACAAAGAGAAGAA ATCTGCCAAGGATGCATTGCTGTTGTGGTGCCAGATGAAGACAGCTGGGTACCC CAATGTCAACATTCACAATTTCACCACTAGCTGGAGGGACGGCATGGCCTTCAA TGCACTGATACACAAACACCGGCCTGACCTGATAGATTTTGACAAACTAAAGAA ATCTAACGCACACTACAACCTGCAGAATGCATTTAATCTGGCAGAACAGCACCT CGGCCTCACTAAACTGTTGGACCCCGAAGACATCAGCGTGGACCATCCTGATGA GAAGTCCATAATCACTTATGTGGTGACTTATTACCACTACTTCTCTAAGATGAA GGCCTTAGCTGTTGAAGGAAAACGAATTGGAAAGGTGCTTGACAATGCTATTGA AACAGAAAAAATGATTGAAAAGTATGAATCACTTGCCTCTGACCTTCTGGAATG GATTGAACAAACCATCATCATTCTGAACAATCGCAAATTTGCCAATTCACTGGT CGGGGTTCAACAGCAGCTTCAGGCATTCAACACTTACCGCACTGTGGAGAAACC		KSAKDALLLWCQMKTAGYPNVNI HNFTTSWRDGMAFNALIHKHRPD LIDFDKLKKSNAHYNLQNAFNLA EQHLGLTKLLDPEDISVDHPDEK SIITYVVTYYHYFSKMKALAVEG KRIGKVLDNAIETEKMIEKYESL ASDLLEWIEQTIIILNNRKFANS LVGVQQQLQAFNTYRTVEK
Human ADRB3_v3	4	prey4629	182	GGAGCAGTGGCTCAACAACATGCAGATCCCAGAGAAGCTGGAGGATCTGGAGGT CATCCAGCACAGATTTGAGAGCCTAGAACCAGAAATGAACAACCAGGCTTCCCG GGTTGCAGTGGTGAACCAGATTGCACGCCAGCTGATGCACAGCGGCCACCCAAG TGAGAAGGAAATCAAAGCCCAGCAGGACAAACTCAACACAAGGTGGAGCCAGTT CAGAGAACTGGTTGACAGGAAGAAGGATGCCCTCCTGTCTGCCCTGAGCATCCA GAACTACCACCTCGAGTGCAATGAAACCAAATCCTGGATTCGGGAAAAGACCAA GGTCATCGAGTCCACCCAGGACCTGGGCAATGACCTGGCTGGCGTCATGGCCCT GCAGCGCAAGCTGACCGGCATGGAGCGGGACTTGGTGGCCATTGAGGCAAAGCT GAGTGACCTGCAGAAGGAGGCGGAGAAGCTGGAGTCCGAGCACCCCGACCAGGC CCAGGCCATCCTGTCTCGGCTGGCCGAGATCAGCGACGTGTGGGAGGAGATGAA GACC	920	EQWLNNMQIPEKLEDLEVIQHRF ESLEPEMNNQASRVAVVNQIARQ LMHSGHPSEKEIKAQQDKLNTRW SQFRELVDRKKDALLSALSIQNY HLECNETKSWIREKTKVIESTQD LGNDLAGVMALQRKLTGMERDLV AIEAKLSDLQKEAEKLESEHPDQ AQAILSRLAEISDVWEEMKT
Human ADRB3_v3	4	prey4629	183	GCAGTGGATCGCTGAGAGGGAGGTGGTCGCAGGGTCCCATGAACTGGGACAGGA CTATGAGCATGTCACGATGTTACAAGAACGATTCCGGGAGTTTGCCCGAGACAC CGGGAACATTGGGCAGGAGCGCGTGGACACGGTCAATCACCTGGCAGATGAGCT CATCAACTCTGGACATTCAGATGCCGCCACCATCGCTGAATGGAAGGATGGCCT CAATGAAGCCTGGGCCGACCTCCTGGAGCTCATTGACACAAGAACACAGATTCT TGCCGCTTCCTATGAACTGCACAAGTTTTACCACGATGCCAAGGAGATCTTTGG GCGTATACAGGACAAACACAAGAAACTCCCTGAGGAGCTTGGGAGAGATCAGAA CACAGTGGAGACCTTACAGAGAATGCACACTACATTTGAGCATGACATCCAGGC TCTGGGCACACAGGTGAGGCAGCTGCAGGAGGATGCAGCCCGCCTCCAGGCGGC CTATGCGGGTGACAAGGCCGACGATATCCAGAAGCGCGAGAACGAGGTCCTGGA AGCCTGGAAGTCCCTCCTGGACGCCTGTGAGAGCCGCAGGGTGCGGCTGGTGGA CACAGGGGACAAGTTCCGCTTCTTCAGCATGGTGCGCGACCTCATGCTCTGGAT GGAGGATGTCATCCGGCAGATCGAGGCCCAGGAGAAGCCAAGGGATGTATCATC TGTTGAACTCTTAATGAATAATCATCAAGGCATCAAAGCTGAAATTGATGCACG TAATGACAGTTTCACAACCTGCATTGAACTTGGGAAATCCCTGTTGGCGAG	921	QWIAEREVVAGSHELGQDYEHVT MLQERFREFARDTGNIGQERVDT VNHLADELINSGHSDAATIAEWK DGLNEAWADLLELIDTRTQILAA SYELHKFYHDAKEIFGRIQDKHK KLPEELGRDQNTVETLQRMHTTF EHDIQALGTQVRQLQEDAARLQA AYAGDKADDIQKRENEVLEAWKS LLDACESRRVRLVDTGDKFRFFS MVRDLMLWMEDVIRQIEAQEKPR DVSSVELLMNNHQGIKAEIDARN DSFTTCIELGKSLLA
Human	4	prey18417	184	CCGAGTGCCTGAAGGGGCTTATTTGGAGTTTTTCATTGACAACATACCATATTC	922	RVPEGAYLEFFIDNIPYSMEYDI

ADRB3_v3				CATGGAGTACGACATCCTAATTCGCTACGAGCCACAGCTACCCGACCACTGGGA AAAAGCTGTCATCACAGTGCAGCGACCTGGAAGGATTCCAACCAGCAGCCGATG TGGTAATACCATCCCCGATGATGACAACCAGGTGGTGTCATTATCACCAGGCTC AAGATATGTCGTCCTTCCTCGGCCGGTGTGCTTTGAGAAGGGAACAAACTACAC GGTGAGGTTGGAGCTGCCTCAGTACACCTCCTCTGATAGCGACGTGGAGAGCCC CTACACGCTGATCGATTCTCTTGTTCTCATGCCATACTGTAAATCACTGGACAT CTTCACCGTGGGAGGTTCAGGAGATGGGGTGGTCACCAACAGTGCCTGGGAAAC CTTTCAGAGATACCGATGTCTAGAGAACAGCAGAAGCGTTGTGAAAACACCGAT GACAGATGTTTGCAGAAACATCATCTTTAGCATTTCTGCCCTGTTACACCAGAC AGGCCTGGCTTGTGAATGCGACCCTCAGGGTTCGTTAAGTTCCGTGTGTGATCC CAACGGAGGCCAGTGCCAGTGCCGGCCCAACGTGGTTGGAAGAACCTGCAACAG ATGTGCACCTGGAACTTTTGGCTTTGGCCCCAGTGGATGCAAACCTTGTGAGTG CCATCTGCAAGGATCTGTCAATGCCTTCTGCAATCCCGTCACTGGCCAGTGCCA CTGTTTCCAGGGAGTGTATGCTCGGCAGTGTGATCGGTGCTTACCTGGGCACTG GGGCTTTCCAAGTTGCCAGCCCTGCCAGTGCAATGGCCACGCCGATGACTGCGA CCCAGTGACTGGGGAGTGCTTGAACTGCCAGGACTACACCATGGGTCATAACTG TGAAAGGTGCTTGGCTGGTTACTATGGC		LIRYEPQLPDHWEKAVITVQRPG RIPTSSRCGNTIPDDDNQVVSLS PGSRYVVLPRPVCFEKGTNYTVR LELPQYTSSDSDVESPYTLIDSL VLMPYCKSLDIFTVGGSGDGVVT NSAWETFQRYRCLENSRSVVKTP MTDVCRNIIFSISALLHQTGLAC ECDPQGSLSSVCDPNGGQCQCRP NVVGRTCNRCAPGTFGFGPSGCK PCECHLQGSVNAFCNPVTGQCHC FQGVYARQCDRCLPGHWGFPSCQ PCQCNGHADDCDPVTGECLNCQD YTMGHNCERCLAGYYG
Human ADRB3_v3	4	prey3777	185	GACATCGAAAGTCAGGAAATTGAAGCTCAAGAAGGTGAAGATGATACCTTTCTA ACAGCCCAAGATGGTGAGGAAGAAGAAAATGAGAAAGATATAGCAGGTTCTGGT GATGGTACACAAGAAGTATCTAAACCTCTTCCTTCAGAAGGGAGCCTAGCTGAG GCTGATCACACAGCTCATGAAGAGATGGAAGCTCATACGACTGTGAAAGAAGCT GAGGATGACAACATCTCGGTCACAATCCAGGCTGAAGATGCCATCACTCTGGAT TTTGATGGTGATGACCTCCTAGAAACAGGTAAAAATGTGAAAATTACAGATTCT GAAGCAAGTAAGCCAAAAGATGGGCAGGACGCCATTGCACAGAGCCCGGAGAAG GAAAGCAAGGATTATGAGATGAATGCGAACCATAAAGATGGTAAGAAGGAAGAC TGCGTGAAGGGTGACCCTGTCGAGAAGGAAGCCAGAGAAAGTTCTAAGAAAGCA GAATCTGGAGACAAAGAAAAGGATACTTTGAAGAAAGGGCCCTCGTCTACTGGG GCCTCTGGTCAAGCAAAGAGCTCTTCAAAGGAATCTAAAGACAGC	923	DIESQEIEAQEGEDDTFLTAQDG EEEENEKDIAGSGDGTQEVSKPL PSEGSLAEADHTAHEEMEAHTTV KEAEDDNISVTIQAEDAITLDFD GDDLLETGKNVKITDSEASKPKD GQDAIAQSPEKESKDYEMNANHK DGKKEDCVKGDPVEKEARESSKK AESGDKEKDTLKKGPSSTGASGQ AKSSSKESKDS
Human ADRB3_v3	4	prey12375	186	GAAAGAAACCGCAAAACCAAAACCAGATCCTTTCAAAGGGATTGGCCAGGAGCA CTTCTTCAAGAAGATCGAGGCTGCTCACTGCCTGGCCTGCGACATGCTAATTCC TGCACAGCCGCAGCTCCTCCAGCGGCACCTGCACTCCGTGGACCACAATCACAA CCGCAGGTTGGCTGCTGAACAGTTCAAGAAAACCAGTCTCCATGTGGCTAAGAG TGTTTTGAACAACAGACATATAGTGAAGATGCTGGAAAAATACCTCAAGGGTGA GGACCCTTTCACCAGTGAAACTGTTGATCCAGAAATGGAAGGAGATGACAATTT AGGAGGTGAGGATAAGAAAGAGAC	924	KETAKPKPDPFKGIGQEHFFKKI EAAHCLACDMLIPAQPQLLQRHL HSVDHNHNRRLAAEQFKKTSLHV AKSVLNNRHIVKMLEKYLKGEDP FTSETVDPEMEGDDNLGGEDKKE
Human ADRB3_v3	4	prey53847	187	CACGCAGCCTAGCAATGCCGCGGGAACTAACACTACCTCGGCGTCGACTCCCAG GAGTAACTCCACACCTATTTCCACAAATAGCAACCCGTTTGGGTTGGGGAGCCT GGGAGGACTTGCAGGCCTTAGCAGCCTGGGCTTGAGCTCGACCAACTTCTCTGA GCTCCAGAGCCAGATGCAGCAGCAGCTTATGGCCAGCCCTGAGATGATGATCCA	925	TQPSNAAGTNTTSASTPRSNSTP ISTNSNPFGLGSLGGLAGLSSLG LSSTNFSELQSQMQQQLMASPEM MIQIMENPFVQSMLSNPDLMRQL

				AATAATGGAAAATCCCTTTGTTCAGAGCATGCTTTCGAATCCCGATCTGATGAG GCAGCTGATTATGGCTAATCCACAGATGCAGCAATTGATTCAGAGAAACCCAGA AATCAGTCACCTGCTCAACAACCCAGACATAATGAGGCAGACACTCGAAATTGC CAGGAATCCAGCCATGATGCAAGAGATGATGAGAAATCAAGACCTGGCTCTTAG CAATCTAGAAAGCATCCCAGGTGGCTATAATGCTTTACGGCGCATGTACACTGA CATTCAAGAGCCGATGCTGAATGCCGCACAAGAGCAGTTTGGGGGTAATCCATT TGCCTCCGTGGGGAGTAGTTCCTCCTCTGGGGAAGGTACGCAGCCTTCCCGCAC AGAAAATCGCG		IMANPQMQQLIQRNPEISHLLNN PDIMRQTLEIARNPAMMQEMMRN QDLALSNLESIPGGYNALRRMYT DIQEPMLNAAQEQFGGNPFASVG SSSSSGEGTQPSRTENR
Human ADRB3_v3	4	prey96287	188	CTCCTGATACTGAAGATACTGTGGCCTAATGAAAAAGAGTGTTTCTGGCATCAT CCATTGGCTAACGTGATATGAAATGACTTCATTTATATGAGCCAAAGAAAAATG GCTATTGATGAATGGAATCTTGACCTGAATCATTTGGAAAATGATTATAATCAT AATCACCTCCTAGCTTACCTGTTTTATAAGTTAGAAATTTATATATCAAATTTA TATACAGTATAACATACAACTGTANAATATACTTTAGGTGTCAGAGCCATAGAA GAATTTAATAATAATAATGGTTTGTTAAGACACTGAAGTTCAGCATGGTAAAAT TCATGCCACAGAAAAGCTGGAAGCAAAAATTTACTCATCTACAAAACTGAAATA TTAATGTTATAATTAATATCTATAACTGACATTGTTCTCAGGTTCANAN	926	LLILKILWPNEKECFWHHPLANV I*NDFIYMSQRKMAIDEWNLDLN HLENDYNHNHLLAYLFYKLEIYI SNLYTV*HTTVXYTLGVRAIEEF NNNNGLLRH*SSAW*NSCHRKAG SKNLLIYKTEILML*LISITDIV LRFX
Human ADRB3_v3	4	prey26599	189	CAAAATCCTTGGAAAAGAATTTCAGCAATACCTTCCAGTGGTTATGGGGCCTTT AATGAAGACGGCTTCAATTAAGCCCGAAGTAGCCCTTTTAGATACCCAAGACAT GGAGAATATGAGTGATGATGATGGTTGGGAATTTGTGAACCTTGGAGATCAGCA AAGCTTTGGTATTAAAACTGCAGGACTAGAAGAAAAATCAACTGCTTGCCAGAT GTTGGTTTGCTATGCTAAGGAGTTAAAGGAAGGCTTTGTGGAGTACACCGAACA GGTTGTCAAACTGATGGTCCCTTTACTGAAATTTTATTTCCACGATGGTGTTCG AGTGGCAGCAGCGGAATCCATGCCTCTTCTCCTGGAGTGTGCAAGAGTCCGTGG TCCTGAGTATCTCACACAGATGTGGCATTTTATGTGTGATGCTCTAATTAAGGC CATTGGTACAGAACCAGATTCAGACGTCCTCTCAGAAATAATGCATTCTTTTGC AAAGTGCATTGAAGTAATGGGAGATGGATGCCTTAATAATGAACACTTTGAAGA ACTGGGAGGTATATTGAAAGCAAAGCTTGAAGAACATTTTAAAAATCAAGAATT ACGACAAGTTAAAAGACAAGATGAAGACTATGATGAACAGGTCGAAGGTACACT ACAAGATGAGGATGATAATGATGTTTATATTCTGACCAAAGTGTCAGATATTTT ACACTCAATATTCAGTAGCTACAAAGAAAAGGTGTTACCATGGTTTGAACAGCT GCTTCCATTAATTGTCAACCTCATTTGTCCACATAGACCATGGCCAGACAGACA ATGGGGATTATGCATCTTTGATGATGTCATAGAACACTGTAGTCCAGCCTCATT TAAATACGCAGAATATTTCTTAAGACCAATGCTCCAATATGTATGTGACAACAG CCCAGAAGTCAGGC	927	KILGKEFQQYLPVVMGPLMKTAS IKPEVALLDTQDMENMSDDDGWE FVNLGDQQSFGIKTAGLEEKSTA CQMLVCYAKELKEGFVEYTEQVV KLMVPLLKFYFHDGVRVAAAESM PLLLECARVRGPEYLTQMWHFMC DALIKAIGTEPDSDVLSEIMHSF AKCIEVMGDGCLNNEHFEELGGI LKAKLEEHFKNQELRQVKRQDED YDEQVEGTLQDEDDNDVYILTKV SDILHSIFSSYKEKVLPWFEQLL PLIVNLICPHRPWPDRQWGLCIF DDVIEHCSPASFKYAEYFLRPML QYVCDNSPEVR
Human ADRB3_v3	4	hgx36	190	ATGTCGAATCTGAGCAAAGGCACGGGCAGCCGGAAGGACACCAAGATGCGGATC CGGGCCTTTCCGATGACCATGGATGAAAAATATGTAAACAGCATTTGGGACCTT CTGAAAAATGCAATTCAAGAAATCCAGCGTAAGAATAACAGTGGTCTTAGTTTT GAGGAGCTCTATAGAAATGCATATACAATGGTTTTGCATAAACATGGAGAAAAG CTCTACACTGGACTAAGAGAAGTTGTTACCGAACATCTCATAAATAAGGTGCGA	928	MSNLSKGTGSRKDTKMRIRAFPM TMDEKYVNSIWDLLKNAIQEIQR KNNSGLSFEELYRNAYTMVLHKH GEKLYTGLREVVTEHLINKVRED VLNSLNNNFLQTLNQAWNDHQTA

				GAAGATGTACTAAATTCATTGAATAACAACTTTCTTCAAACGCTAAATCAAGCT TGGAATGATCATCAAACAGCTATGGTGATGATTAGAGACATACTAATGTACATG GACCGTGTGTATGTACAACAAAATAATGTGGAGAACGTCTACAATTTGGGATTA ATTATTTTTCGAGATCAAGTTGTACGTTATGGGTGTATTAGGGATCATCTACGG CAAACTCTATTGGATATGATTGCAAGAGAGCGGAAAGGAGAAGTCGTAGACAGA GGCGCAATAAGAAATGCTTGCCAGATGTTAATGATTTTAGGTCTCGAAGGAAGA TCAGTCTATGAAGAAGATTTTGAGGCTCCTTTTTTGGAAATGTCTGCAGAATTT TTTCAGATGGAAAGCCA		MVMIRDILMYMDRVYVQQNNVEN VYNLGLIIFRDQVVRYGCIRDHL RQTLLDMIARERKGEVVDRGAIR NACQMLMILGLEGRSVYEEDFEA PFLEMSAEFFQMES
Human ADRB3_v3	4	hgx202	191	TGAAACTGTAGTTTTGCCTTTGGATGAAAGGGCATTTGAGAAGACTTTAACACC AATCATACAGGAATATTTTGAGCATGGAGATACTAATGAAGTTGCGGAAATGTT AAGAGATTTAAATCTTGGTGAAATGAAAAGTGGAGTACCAGTGTTGGCAGTATC CTTAGCATTGGAGGGGAAGGCTAGTCATAGAGAGATGACATCTAAGTTTCTTTC TGACCTTTGTGGGACAGTAATGAGCACAACTGATGTGGAAAAATCATTTGATAA ATTGTTGAAAGATCTACCTGAATTAGCACTGGATACTCCTAGAGCACCACAGTT GGTGGGCCAGTTTATTGCTAGAGCTGTTGGAGATGGAATTTTATGTAATACCTA TATTGATAGTTACAAAGGAACTGTAGATTGTGTGCAGGCTAGAGCTGCTCTGGA TAAGGCTACCGTGCTTCTGAGTATGTCTAAAGGTGGAAAGCGTAAAGATAGTGT GTGGGGCTCTGGAGGTGGGCAGCAATCTGTCAATCACCTTGTTAAAGAGATTGA TATGCTGCTGAAAGAATATTTACTCTCTGGAGACATATCTGAAGCTGAACATTG CCTTAAGGAACTGGAAGTACCTCATTTTCACCATGAGCTTGTATATGAAGCTAT TATAATGGTTTTAGAGTCAACTGGAGAAAGTACATTTAAGATGATTTTGGATTT ATTAAAGTCCCTTTGGAAGTCTTCTACCATTACTGTAGACCAAATGAAAAGAGG	929	ETVVLPLDERAFEKTLTPIIQEY FEHGDTNEVAEMLRDLNLGEMKS GVPVLAVSLALEGKASHREMTSK FLSDLCGTVMSTTDVEKSFDKLL KDLPELALDTPRAPQLVGQFIAR AVGDGILCNTYIDSYKGTVDCVQ ARAALDKATVLLSMSKGGKRKDS VWGSGGGQQSVNHLVKEIDMLLK EYLLSGDISEAEHCLKELEVPHF HHELVYEAIIMVLESTGESTFKM ILDLLKSLWKSSTITVDQMKR
Human ADRB3_v3	4	prey7713	192	GGAAGGAGGAAGAGGAACGGAAAGCTCGGGAAAAGCAGGAGGAGGAAGAGGCTA AATGTCTAGAGAAGTTCCAGGATGCTGACCCGTTGGAACAAGATGAGCTCCACA CTTTCACAGATACTATGTTGCCAGGCTGCTTCCACCTTCTTGATGAGCTGCCAG ACACAGTATACCGTGTGTGTGACCTGATCATGACAGCAATCAAACGTAATGGAG CAGATTATCGTGACATGATTCTGAAGCAAGTAGTCAATCAGGTGTGGGAAGCTG CTGATGTATTGATCAAAGCTGCTCTTCCCCTGACAACAAGTGACACAAAAACCG TGTCAGAGTGGATAAGTCAGATGGCCACACTGCCCCAGGCCTCCAATTTGGCTA CTAGAATCTTGCTTTTAACGCTACTTTTTGAGGAGTTGAAGCTACCTTGTGCTT GGGTGGTTGAATCAAGTGGCATCCTTAATGTCCTAATCAAACTCTTGGAAGTGG TTCAGCCCTGCCTCCAGGCAGCCAAGGAGCAGAAGGAAGTCCAGACCCCAAAGT GGATCACACCAGTGTTGCTCCTGATTGATTTCTATGAAAAGACAGCCATCTCCT CAAAAAGGAGAGCCCAGATGACTAAGTACCTGCAATCCAACAGCAACAACTGGC GCTGGTTTGATGATCGCTCTGGGCGTTGGTGTAGTTACAGTGCAAGCAACAATA GCACTATTGATTCTGCCTGGAAATCTGGAGAGACAAGCGTGCGATTCACTGCAG GCCGAAGAAGATACACGGTCCAATTCACTACAATGGTGCAGGTTAATGAGGAAA CAGGGAACCGACGCCCTGTGATGCTGACTCTCCTCAGGGTACCTCGGCTGAATA AAAATTCAAAAAACAGCAATGGACAGGAACTAGAGAAGACGCTGGAAGAAAGCA	930	KEEEERKAREKQEEEEAKCLEKF QDADPLEQDELHTFTDTMLPGCF HLLDELPDTVYRVCDLIMTAIKR NGADYRDMILKQVVNQVWEAADV LIKAALPLTTSDTKTVSEWISQM ATLPQASNLATRILLLTLLFEEL KLPCAWVVESSGILNVLIKLLEV VQPCLQAAKEQKEVQTPKWITPV LLLIDFYEKTAISSKRRAQMTKY LQSNSNNWRWFDDRSGRWCSYSA SNNSTIDSAWKSGETSVRFTAGR RRYTVQFTTMVQVNEETGNRRPV MLTLLRVPRLNKNSKNSNGQELE KTLEESKEMDIKRKENKGNDTPL ALESTNTEKETSLEETKIGEILI QGLTEDMVTVLIRACVSMLGVPV DPDTLHATLRLCLRLT

				AAGAAATGGATATCAAACGTAAAGAAAATAAAGGCAATGATACCCCTTTGGCCC TAGAGAGTACAAACACTGAAAAGGAGACAAGCCTGGAGGAAACAAAAATCGGGG AGATCCTGATCCAGGGCTTGACAGAAGATATGGTGACTGTTTTAATCCGGGCCT GCGTGAGCATGCTGGGAGTCCCTGTGGACCCAGATACTTTGCATGCCACCCTTC GTCTCTGTCTGAGGCTCACCCG		
Human ADRB3_v3	4	prey3599	193	GGCAGTTATTGAGATGTGTCAGTTACTGGTCATGGGAAATGAGGAGACACTGGG AGGGTTTCCTGTCAAGAGTGTTGTTCCAGCTTTGATTACGTTACTTCAGATGGA GCACAATTTTGATATTATGAACCATGCTTGTCGAGCCTTAACATACATGATGGA AGCACTTCCTCGATCTTCTGCTGTTGTAGTAGATGCTATTCCTGTCTTTTTAGA AAAGCTGCAAGTTATTCAGTGTATTGATGTGGCAGAGCAGGCCTTGACTGCCTT GGAGATGTTGTCACGGAGACATAGTAAAGCCATTCTACAGGCGGGTGGTTTGGC AGACTGCTTGCTGTACCTAGAATTCTTCAGCATAAATGCCCAAAGAAATGCATT AGCAATTGCAGCTAATTGCTGCCAGAGTATCACGCCAGATGAATTTCATTTTGT GGCAGATTCACTCCCATTGCTAACCCAAAGGCTAACACATCAGGATAAAAAGTC AGTAGAAAGCACTTGCCTTTGTTTGCACGCCTAGTGGACAACTTCCAGCATGA GGAGAATTTACTCCAGCAGGTTGCTTCCAAAGATCTGCTTACAAATGTTCAACA GCTGTTGGTAGTGACTCCACCCATTTTAAGTTCTGGGATGTTTATAATGGTGGT TCGCATGTTTTCTCTGATGTGTTCCAACTGTCCAACTTTAGCTGTTCAACTTAT GAAACAAAACATTGCAGAAACGCTTCACTTTCTCCTGTGTGGTGCCTCCAATGG AAGTTGTCAGGAACAGATTGATCTTGTTCCACGAAGCCCTC	931	AVIEMCQLLVMGNEETLGGFPVK SVVPALITLLQMEHNFDIMNHAC RALTYMMEALPRSSAVVVDAIPV FLEKLQVIQCIDVAEQALTALEM LSRRHSKAILQAGGLADCLLYLE FFSINAQRNALAIAANCCQSITP DEFHFVADSLPLLTQRLTHQDKK SVESTCLCFARLVDNFQHEENLL QQVASKDLLTNVQQLLVVTPPIL SSGMFIMVVRMFSLMCSNCPTLA VQLMKQNIAETLHFLLCGASNGS CQEQIDLVPRSP
Human ADRB3_v3	4	prey96313	194	AAATTTANGGATCCGTTNTTGNTGAATGTGATNCCAANCTTCTCTACACTGTGC ATGGACCATGCTTAACTTTGATTATTGATTATGNNNGNGACCTTGCATNNNNAT ATNTTTNATGATGGGTANTTCTTATTTACTTTTTAAACNAGGGNAGGACTATTG GNAAATTGNCACATGGGNNTGANNTACATGGTGTTTNGNNANTGAATNGGGACA GGGTGNGCTGGATGCTGNGCTTTGNNTANGGTTTTTGGNGGGNNGTTGCANGGT NGGNGTNCGTTTTTNTGGGGGGGTNTGGG	932	KFXDPXLXNVXPXFSTLCMDHA* L*LLIMXXTLHXXXFXDGXFLFT F*TRXGLLXNXHMGXXYMVFXX* XGTGXAGCXALXXVFGGXLXGXX XFXWGGX
Human ADRB3_v3	4	prey3518	195	ATGGAGCCGCCGAATCTCTATCCGGTGAAGCTCTACGTGTACGACCTGTCCAAA GGCCTGGCCCGGCGGCTCAGCCCCATCATGCTGGGGAAACAACTGGAAGGCATC TGGCACACATCCATAGTTGTGCACAAGGATGAGTTCTTCTTCGGCAGTGGTGGT ATCTCCAGCTGCCCCCCGGGAGGGACATTGCTTGGGCCTCCAGACTCTGTGGTT GATGTGGGGAGTACAGAAGTCACAGAAGAAATCTTTCTGGAGTACCTCTCCTCC CTGGGGGAGTCCCTGTTCCGAGGTGAGGCCTACAACCTCTTTGAACACAATTGT AACACCTTCAGCAACGAAGTGGCACAGTTCCTGACTGGGCGGAAGATTCCTTCT TACATCACAG	933	MEPPNLYPVKLYVYDLSKGLARR LSPIMLGKQLEGIWHTSIVVHKD EFFFGSGGISSCPPGGTLLGPPD SVVDVGSTEVTEEIFLEYLSSLG ESLFRGEAYNLFEHNCNTFSNEV AQFLTGRKIPSYIT
Human ADRB3_v3	4	prey96318	196	CACTTCCAATCACTAAANCCTAGTGCTGNNGAACATGATCTTGTTTTAAAAGTN GATNTNTTNNTTGANANTNTNTNNTTNTATGANTCTTGTGCTACCTTGTGTAAC NTANTCTGGCATACTAGGGGGGGGGGGGGGGGCNTTNCTAANTGCTNNNCAAG AAGATNATGAGTTTGNGGGGGGGGGANGGNTCTNTCTTNTACNAAAATAGGNTN TGCCNCGANCAGNGGCGTNGNGGGGGTGATNCGNNCCGNGGGGGNNNNGGNNGN	934	HFQSLXPSAXEHDLVLKVDXXXX XXXXYXSCATLCNXXWHTRGGGG GXX*XLXKKXMSLXGGXGSXXYX NRXCXXQXRXGGDXXRGGXGXLG PLGXXRDAXXXXXRX

				CTNGGNCCCCTNGGNCNNCNNCGCGACGCNGNANGNNNTNTGNCGCGGCNCG		
Human ADRB3_v3	4	prey96367	197	ATTTGNNTTGNNATACCCTTTTNAAGAAAGTATGCNACTTGTNCTNCTCTTCTG GAATNTGCCTCATTANCTCNTAGCTTATTAATGNATTATTGATTATTGAAGAAA NTTTCCCTTATTACAAAGNCCAGTCGTNGTNCATCCCTNATGATGCCAAGCAAT GATTGATGTGTGGGTGTGGAGTCCTTGTGGGTCAGGCATNTTAATTANCTTANN CTTTGTACATGTTGATGGTNGCGNNANTGANANCGANGACCTTNCNGTGGGGGG GGGGTTTNTGTC	935	IXXXIPFXRKYATCXXLLEXASL XXSLLMXY*LLKKXSLITKXSRX XSLMMPSND*CVGVESLWVRHXN XLXLCTC*WXRX*XRXPXXGGGV XV
Human ADRB3_v3	4	prey32851	198	GCTGGTCAAGTGCATAGAGGAGCTGTGCCAGAAGCGGGAGGAGCTGTGCCGGCA GATCCAGGAGGAGGAGGACGAGAAGCAGCGGCTGCAGAATGAGGTGAGGCAGCT GACAGAGAAGCTGGCCCGCGTCAACGAGAACCTGGCACGCAAGATTGCCTCTCG CAACGAGTTCGACCGGACCATCGCGGAGACGGAGGCCGCCTACCTCAAGATCCT GGAGAGCTTCCAGACTTTGCTCAGCGTTCTCAAGAGGGAAGCTGGGAACCTGAC CAAGGCTACAGCCCCAGACCAGAAAAGTAGCGGCGGCAGGGACAGCTGA	936	LVKCIEELCQKREELCRQIQEEE DEKQRLQNEVRQLTEKLARVNEN LARKIASRNEFDRTIAETEAAYL KILESFQTLLSVLKREAGNLTKA TAPDQKSSGGRDS*
Human ADRB3_v3	4	prey96364	199	GTGCTTGTTCTAAGGAGGCTAGGGTGNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNGGGNGGNGGGGGGGAAAAGAANACCAAGGCTGGAGGA CTCACNTTTNNTGNNNGGANAATTTATTGCAAACATAAAGTANTCAAACCAGNT TAATNCCANTNTAANGACGGNCNTNTANANCNGTAANNTGCAACGGNGCGGCCC NANANNGAACNCG	937	VLVLRRLGXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXGGGG EKXTKAGGLTFXXXXIYCKHKVX KPX*XXXXDGXXXX*XATXRPXX EX
Human ADRB3_v3	4	prey94531	200	CAGATATCTGTTAAGGCATTTCCCAGATGTGATGCCAGCCTTCTTACCTGTACT GAAAGATGCTTAGCTTAGAAAAAAACAAAACAGATGCAAAATCAGATAATTTTA TTTTGTTTCATGGGTTTTCTTATTTACTTTTTAAACAAGGAAGGAATATTAGAA AATCACACAAGGCCTCACATACATGTTATTTAAAGAATGAATTGGGACGGATGT CTTAGACTTCACTTTCCTAGGCTTTTTAGCAAAACCTAAAGGGTGGTATCCATA TTTTGCGTGAATTATGGGTGTAAGACCTTGCCCACTTAGGTTTTCTATCTCTGT CCTTGATCTTCTTGCCAAAATGTGAGTATACAGAAATTTTCTGTATATTTCAAC TTAAGACATTTTTAGCATCTGTATAGTTGTATTCAATTTGAGACCTTTTCTATG GGAAGCTCAGTAATTTTTATTAAAAGATTGCCATTGCTATTCATGTAAAACATG GAAAAAAAATTGTGTAGTGAAGCCAACAGTGGACTTAGGATGGGATTGAATGTT CAGTATAGTGATCTCACTTAGGAGAATTTGCAGGAGAAAGTGATAGTTTATGTT TTTTCCTCGCCCATATTCAGTTTGTTCTACTTCCTCCCCTTCCTTCCAGATGAT AACATCACATCTCTACAGTAAGTGCCTCTGCCAGCCCAACCCAGGAGCGCAAGT NGTCTTTGCCATCTGGTCTATAGTACAGTGCGCGGCGTTAGGCCA	938	RYLLRHFPDVMPAFLPVLKDA*L RKKQNRCKIR*FYFVSWVFLFTF *TRKEY*KITQGLTYMLFKE*IG TDVLDFTFLGFLAKPKGWYPYFA *IMGVRPCPLRFSISVLDLLAKM *VYRNFLYIST*DIFSICIVVFN LRPFLWEAQ*FLLKDCHCYSCKT WKKNCVVKPTVDLGWD*MFSIVI SLRRICRRK**FMFFPRPYSVCS TSSPSFQMITSHLYSKCLCQPNP GAQVVFAIWSIVQCAALG
Human ADRB3_v3	4	prey96383	201	ACGTTANATAAAAAAGAGTTTGCCAAATTTAACCCTCTGGTAACTGCAACAATT CTCCCGGCATGTTCTTTGAGGACAGTGTTACACCATATACACAATTGGTCCTTA GTGAAGATATTTAAAAACATGAGTGTGTAAGGATTTCTTAATAATAATTCTATT NTTTCTAAGCATAAATTTCNAATTATTTTTTCAATGAATACNTANGGAGATTCN TTACACCTTTCTTTTAAGGNTGCCTACCTAAAATTTCCGGGGTGNCCTGCTTTT	939	TLXKKEFAKFNPLVTATILPACS LRTVLHHIHNWSLVKIFKNMSV* GFLNNNSIXSKHKFXIIFSMNTX GDSLHLSFKXAYLKFPGXPAFLX K

				TTANGGAAANC		
Human ADRB3_v3	4	prey96391	202	GAAGATGCTCATGAAGAGGGCTCTGAAGTTTAAGGATCCATTGCTGATGAAAAT GATTAGAAACATTTCTCAGCATGATGGACCAACTAAAAATCTGTTTATTGATTA TGTTGGGGACCTTGCAGCCCAGATCTCTAATGATGAAGAAGAGGAGTTTGTGAT TGAATGTTTGGGAACTCTTGCAAACTTGACCATTCCAGACTTAGACTGGGAATT GGTTCTTAAAGAATATAAGTTGGTTCCATACCTCAAGGATAAACTAAAACCAGG TGCTGCAGAAGATGATCTTGTTTTAGAAGTGGTTATAATGATTGGAACTGTATC CATGGATGACTCTTGTGCTGCATTGCTAGCCAAATCTGGCATAATCCCTGCACT CATTGAATTGCTAAATGCTCAACAAGAAGATGATGAATTTGTGTGTCAGATAAT TTATGTCTTCTACCAGATGGTTTTCCACCAAGCCACAAGAGACGTCATAATCAA GGAAACACAGGCTCCAGCATATCTCATAGACCTAATGCATGATAAGAATAATGA AATCCGAAAGGTCTGTGATAATACATTAGATATTATAGCGGAATATGATGAAGA ATGGGCTAAGAAAATTCAGAGTGAAAAGTTTCGCTGGCATAACTCTCAGTGGCT GGAGATGGTAGAGAGTCGTCAGATGGATGAGAGTGAGCAGTACTTGTATGGTGA TGATCGAATTGAGCCATACATTCATGAAGGAGATATTCTCGAAAGACCTGACCT TTTCTACAACTCAGATGGATTAATTGCCTCTGAAGGAGCCAT	940	KMLMKRALKFKDPLLMKMIRNIS QHDGPTKNLFIDYVGDLAAQISN DEEEEFVIECLGTLANLTIPDLD WELVLKEYKLVPYLKDKLKPGAA EDDLVLEVVIMIGTVSMDDSCAA LLAKSGIIPALIELLNAQQEDDE FVCQIIYVFYQMVFHQATRDVII KETQAPAYLIDLMHDKNNEIRKV CDNTLDIIAEYDEEWAKKIQSEK FRWHNSQWLEMVESRQMDESEQY LYGDDRIEPYIHEGDILERPDLF YNSDGLIASEGA
Human ADRB3_v3	4	prey27035	203	ATGTCTTATCCCGCTGATGATTATGAGTCTGAGGCGGCTTATGACCCCTACGCT TATCCCAGCGACTATGATATGCACACAGGAGATCCAAAGCAGGACCTTGCTTAT GAACGTCAGTATGAACAGCAAACCTATCAGGTGATCCCTGAGGTGATCAAAAAC TTCATCCAGTATTTCCACAAAACTGTCTCAGATTTGATTGACCAGAAAGTGTAT GAGCTACAGGCCAGTCGTGTCTCCAGTGATGTCATTGACCAGAAGGTGTATGAG ATCCAGGACATCTATGAGAACAGCTGGACCAAGCTGACTGAAAGATTCTTCAAG AATACACCTTGGCCCGAGGCTGAAGCCATTGCTCCACAGGTTGGCAATGATGCT GTCTTCCTGATTTTATACAAAGAATTATACTACAGGCACATATATGCCAAAGTC AGTGGGGGACCTTCCTTGGAGCAGAGGTTTGAATCCTATTACAACTACTGCAAT CTCTTCAACTACATTCTTAATGCCGATGGTCCTGCTCCCCTTGAACTACCCAAC	941	MSYPADDYESEAAYDPYAYPSDY DMHTGDPKQDLAYERQYEQQTYQ VIPEVIKNFIQYFHKTVSDLIDQ KVYELQASRVSSDVIDQKVYEIQ DIYENSWTKLTERFFKNTPWPEA EAIAPQVGNDAVFLILYKELYYR HIYAKVSGGPSLEQRFESYYNYC NLFNYILNADGPAPLELPN
Human ADRB3_v3	4	prey32510	204	AGAAAACAGTTCTAAAGAAATCTTAAAAGTTCTTGAGGCTGTACGTCAGGAGAA ACAGAAAGAGACGGCCAAGTGTGAGCAGCAGATGGCAAAAGTACAGAAACTAGA AGAGAGCTTGCTTGCTACTGAAAAAGTGATCAGTTCCCTGGAAAAGTCTAGAGA TTCTGATAAGAAAGTTGTAGCTGACCTCATGAACCAGATCCAGGAGCTAAGAAC ATCGGTCTGTGAGAAAACAGAAACTATAGACACCCTGAAACAAGAACTGAAGGA CATAAATTGCAAATACAACTCTGCTTTGGTTGACAGAGAAGAGAGCAGAGTGTT GATCAAGAAGCAGGAAGTGGATATTCTGGATCTGAAAGAAACCCTTAGGCTGAG AATACTTTCTGAGGACATAGAGAGGGATATGCTCTGTGAGGACCTGGCTCATGC CACTGAGCAGCTGAACATGCTCACAGAGGCCTCAAAAAAACACTCGGGGCTGCT GCAGTCTGCCCAGGAAGAACTGACCAAGAAGGAAGCCCTGATTCAGGAACTTCA GCACAAGCTAAACCAAAAGAAAGAGGAAGTAGAACAGAAGAAGAATGAATATAA CTTCAAAATGAGGCAACTAGAACATGTGATGGATTCTGCTGCTGAGGATCCCCA GAGTCCTAAGACACCACCTCACTTTCAAACACATTTGGCAAAACTCCTGGAAAC	942	ENSSKEILKVLEAVRQEKQKETA KCEQQMAKVQKLEESLLATEKVI SSLEKSRDSDKKVVADLMNQIQE LRTSVCEKTETIDTLKQELKDIN CKYNSALVDREESRVLIKKQEVD ILDLKETLRLRILSEDIERDMLC EDLAHATEQLNMLTEASKKHSGL LQSAQEELTKKEALIQELQHKLN QKKEEVEQKKNEYNFKMRQLEHV MDSAAEDPQSPKTPPHFQTHLAK LLETQEQEIEDGRASKTSLEHLV TKLNEDREVKNAEILRMK

				ACAAGAACAAGAGATAGAAGATGGAAGAGCCTCTAAGACTTCTTTGGAACACCT TGTAACAAAGCTAAATGAAGACAGAGAAGTCAAAAATGCTGAAATCCTCAGAAT GAAGG		
Human ADRB3_v3	4	prey6586	205	CGTGACAGGTCGCTACACCATCCTCATCAAGTACGGTGGTGACGAGATCCCCTT CTCCCCGTACCGCGTGCGTGCCGTGCCCACCGGGGACGCCAGCAAGTGCACTGT CACAGTGTCAATCGGAGGTCACGGGCTAGGTGCTGGCATCGGCCCCACCATTCA GATTGGGGAGGAGACGGTGATCACTGTGGACACTAAGGCGGCAGGCAAAGGCAA AGTGACGTGCACCGTGTGCACGCCTGATGGCTCAGAGGTGGATGTGGACGTGGT GGAGAATGAGGACGGCACTTTCGACATCTTCTACACGGCCCCCCAGCCGGGCAA ATACGTCATCTGTGTGCGCTTTGGTGGCGAGCACGTGCCCAACAGCCCCTTCCA AGTGACGGCTCTGGCTGGGGACCAGCCCTCGGTGCAGCCCCCTCTACGGTCTCA GCAGCTGGCCCCACAGTACACCTACGCCCAGGGCGGCCAGCAGACTTGGGCCCC GGAGAGGCCCCTGGTGGGTGTCAATGGGCTGGATGTGACCAGCCTGAGGCCCTT TGACCTTGTCATCCCCTTCACCATCAAGAAGGGCGAGATCACAGGGGAGGTTCG GATGCCCTCAGGCAAGGTGGCGCAGCCCACCATCACTGACAACAAAGACGGCAC CGTGACCGTGCGGTATGCACCCAGCGAGGCTGGCCTGCACGAGATGGACATCCG CTATGACAACATGCACATCCCAGGAAGCCCCTTGCAGTTCTATGTGGATTACGT CAACTGTGGCCATGTCACTGCCTATGGGCCTGGCCTCACCCATGGAGTAGTGAA CAAGCCTGCCACCTTCACCGTCAACACCAAGGATGCAGGAGAGGGGGGCCTGTC TCTGGCCATTGAGGGCCCGTCCAAAGCAGAAATCAGCTGCACTGACAACCAGGA TGGGACATGCAGCGTGTCCTACCTGCCTGTGCTGCCGGGGGACTACAGCATTCT AGTCAAGTACAATGAACAGCACGTCCCAGGCAGCCCCTTCACTGCTCGGGTCAC AGGTGACGACTCCATGCGTATGTCCCACCTAAAGGTCGGCTCTGCTGCCGACAT CCCCATCAACATCTCAGAGACGGATCTCAGCCTGCTGACGGCCACTGTGGTCCC GCCCTCGGGCCGGGAGGAGCCCTGTTTGCTGAAGCGGCTGCGTAATGGCCACGT GGGGATTTCATTCGTGCCCAAGGAGACGGGGGAGCACCTGGTGCATGTGAAGAA AAATGGCCAGCACGTGGCCAGCAGCCCCATCCCGGTGGTGATCAGCCAGTCGGA AATTGGGGATGCCAGTCGTGTTCGGGTCTCTGGTCAGGGCCTTCACGAAGGCCA CACCTTTGAGCCTGCAGAGTTTATCATTGATACCCGCGATGCAGGCTATGGTGG GCTCAGCCTGTCCATTGAGGGCCCCAGCAAGGTGGACATCAACACAGAGGACCT GGAGGACGGGACGTGCAGGGTCACCTACTGCCCCACAGAGCCAGGCAACTACAT CATCAACATCAAGTTTGCCGACCAGCACGTGCCTGGCAGCCCCTTCTCTGTGAA GGTGACAGGCGAGGGCCGGGTGAAAGAGAGCATCACCCGCAGGCGTCGGGCTCC TTCAGTGGCCAACGTTGGTAGTCATTGTGACCTCAGCCTGAAAATCCCTGAAAT TAGCATCCAGGATATGACAGCCCAGGTGACCAGCCCATCGGGCAAGACCCATGA GGCCGAGATCGTGGAAGGGGAGAACCACACCTACTGCATCCGCTTTGTTCCCGC TGAGATGGGCACACACACAGTCAGCGTCAAGTACAAGGGCCAGCACGTGCCTGG GAGCCCCTTCCAGTTCACCGTGGGGCCCCTAGGGGAAGGGGGAGCCCACAAGGT CCGAGCTGGGGGCCCTGGCCTGGAGAGAGCTGAAGCTGGAGTGCCAGCCGAATT	943	VTGRYTILIKYGGDEIPFSPYRV RAVPTGDASKCTVTVSIGGHGLG AGIGPTIQIGEETVITVDTKAAG KGKVTCTVCTPDGSEVDVDVVEN EDGTFDIFYTAPQPGKYVICVRF GGEHVPNSPFQVTALAGDQPSVQ PPLRSQQLAPQYTYAQGGQQTWA PERPLVGVNGLDVTSLRPFDLVI PFTIKKGEITGEVRMPSGKVAQP TITDNKDGTVTVRYAPSEAGLHE MDIRYDNMHIPGSPLQFYVDYVN CGHVTAYGPGLTHGVVNKPATFT VNTKDAGEGGLSLAIEGPSKAEI SCTDNQDGTCSVSYLPVLPGDYS ILVKYNEQHVPGSPFTARVTGDD SMRMSHLKVGSAADIPINISETD LSLLTATVVPPSGREEPCLLKRL RNGHVGISFVPKETGEHLVHVKK NGQHVASSPIPVVISQSEIGDAS RVRVSGQGLHEGHTFEPAEFIID TRDAGYGGLSLSIEGPSKVDINT EDLEDGTCRVTYCPTEPGNYIIN IKFADQHVPGSPFSVKVTGEGRV KESITRRRRAPSVANVGSHCDLS LKIPEISIQDMTAQVTSPSGKTH EAEIVEGENHTYCIRFVPAEMGT HTVSVKYKGQHVPGSPFQFTVGP LGEGGAHKVRAGGPGLERAEAGV PAEFSIWTREAGAGGLAIAVEGP SKAEISFEDRKDGSCGVAYVVQE PGDYEVSVKFNEEHIPDSPFVVP VASPSGDARRLTVSSLQESGLKV NQPASFAVSLNGAKGAIDAKVHS PSGALEECYVTEIDQDKYAVRFI PRENGVYLIDVKFNGTHIPGSPF KIRVGEPGHGGDPGLVSAYGAGL

				CAGTATCTGGACCCGGGAAGCTGGTGCTGGAGGCCTGGCCATTGCTGTCGAGGG CCCCAGCAAGGCTGAGATCTCTTTTGAGGACCGCAAGGACGGCTCCTGTGGTGT GGCTTATGTGGTCCAGGAGCCAGGTGACTACGAAGTCTCAGTCAAGTTCAACGA GGAACACATTCCCGACAGCCCCTTCGTGGTGCCTGTGGCTTCTCCGTCTGGCGA CGCCCGCCGCCTCACTGTTTCTAGCCTTCAGGAGTCAGGGCTAAAGGTCAACCA GCCAGCCTCTTTTGCAGTCAGCCTGAACGGGGCCAAGGGGGCGATCGATGCCAA GGTGCACAGCCCCTCAGGAGCCCTGGAGGAGTGCTATGTCACAGAAATTGACCA AGATAAGTATGCTGTGCGCTTCATCCCTCGGGAGAATGGCGTTTACCTGATTGA CGTCAAGTTCAACGGTACCCACATCCCTGGAAGCCCCTTCAAGATCCGAGTTGG GGAGCCTGGGCATGGAGGGGACCCAGGCTTGGTGTCTGCTTACGGAGCAGGTCT GGAAGGCGGTGTCACAGGGAACCCAGCTGAGTTCGTCGTGAACACGAGCAATGC GGGAGCTGGTGCCCTGTCGGTGACCATTGACGGCCCCTCCAAGGTGAAGATGGA TTGCCAGGAGTGCCCTGAGGGCTACCGCGTCACCTATACCCCCATGGCACCTGG CAGCTACCTCATCTCCATCAAGTACGGCGGCCCCTACCACATTGGGGGCAGCCC CTTCAAGGCCAAAGTCACAGGCCCCCGTCTCGTCAGCAACCACAGCCTCCACGA GACATCATCAGTGTTTGTAGACTCTCTGACCAAGGCCACCTGTGCCCCCCAGCA TGGGGCCCCGGGTCCTGGGCCTGCTGACGCCAGCAAGGTGGTGGCCAAGGGCCT GGGGCTGAGCAAGGCCTACGTAGGCCAGAAGAGCAGCTTCACAGTAGACTGCAG CAAAGCAGGCAACAACATGCTGCTGGTGGGGGTTCATGGCCCAAGGACCCCCTG CGAGGAGATCCTGGTGAAGCACGTGGGCAGCCGGCTCTACAGCGTGTCCTACCT GCTCAAGGACAAGGGGGAGTACACACTGGTGGTCAAATGGGGGCACGAGCACAT CCCAGGCAGCCCCTACCGCGTTGTGGTGCCCTGA		EGGVTGNPAEFVVNTSNAGAGAL SVTIDGPSKVKMDCQECPEGYRV TYTPMAPGSYLISIKYGGPYHIG GSPFKAKVTGPRLVSNHSLHETS SVFVDSLTKATCAPQHGAPGPGP ADASKVVAKGLGLSKAYVGQKSS FTVDCSKAGNNMLLVGVHGPRTP CEEILVKHVGSRLYSVSYLLKDK GEYTLVVKWGHEHIPGSPYRVVV P*
Human ADRB3_v3	4	prey96409	206	AGATTTATTCTTACTATTCTGGAGGCCAGAAGTCCAGAATGATGTTACTGGGCT AAAATCAAGGTGTTGGCAGGGCTATGTTCATTTCTGGAGCTCTGAGGGAGAATC CATTTTCTTCCTTTTACTAGCTTCCAGAGGTTGCCACATTCTTGGCTCACATCT GTCCCCCTTCCATCTTCAAAGCCAGAAATGGCTCATTAAATCTTTCTCCTATTG AGTTTCCTATCGGGTCTTTCTCTGACATTTGCTTCTGCCTCCCACTTCCACTTA TAAGGACCCTTGTGATGACATTGGACCGATCCAGGATAATGTCTTGGTCAGCAA CCC	944	RFILTILEARSPE*CYWAKIKVL AGLCSFLEL*GRIHFLPFTSFQR LPHSWLTSVPLPSSKPEMAH*IF LLLSFLSGLSLTFASASHFHL*G PL**HWTDPG*CLGQQP
Human ADRB3_v3	4	prey92944	207	CGGCGGCATGGCCACCACGTCGGCCGAGATCGAGCTGCCGGACGTGGAGCCCGC AGCCTTCCTGGCGCTGCTGAGATTTCTATATTCAGATGAAGTTCAAATTGGTCC AGAAACAGTTATGACCACTCTTTATACTGCCAAGAAATACGCAGTCCCAGCCTT GGAAGCACACTGTGTAGAATTTCTCACCAAACATCTTAGGGCAGATAATGCCTT TATGTTACTTACTCAGGCTCGATTATTTGATGAACCTCAGCTTGCTAGTCTTTG TCTAGATACAATAGACAAAAGCACAATGGATGCAATAAGTGCAGAAGGGTTTAC TGATATTGATATAGATACACTCTGTGCAGTTTTAGAGAGAGACACACTCAGTAT TCGAGAAAGTCGACTTTTTGGAGCTGTTGTACGCTGGGCAGAAGCAGAATGTCA GAGACAACAATTACCTGTGACTTTTGGGAATAAACAAAAAGTTCTAGGAAAAGC ACTTTCCTTAATCCGGTTCCCACTGATGACAATTGAGGAATTTGCAGCAGGTCC	945	GGMATTSAEIELPDVEPAAFLAL LRFLYSDEVQIGPETVMTTLYTA KKYAVPALEAHCVEFLTKHLRAD NAFMLLTQARLFDEPQLASLCLD TIDKSTMDAISAEGFTDIDIDTL CAVLERDTLSIRESRLFGAVVRW AEAECQRQQLPVTFGNKQKVLGK ALSLIRFPLMTIEEFAAGPAQSG ILSDREVVNLFLHFTVNPKP

				TGCTCAATCTGGAATTTTGTCAGATCGTGAAGTGGTAAACCTCTTTCTTCATTT TACTGTCAACCCTAAACCCCG		
Human ADRB3_v3	4	prey96422	208	GATATTGTTCTTAAGCTGATTGGATTGCCTGTTGATTATTGTGGCTCTTCACTG TAAATTAAGTTTCATTTATAGTTTGTTGGAAATTCTGCAGAGGCTAGTATCAAT ATCTGTGTTAGCTGCTTCTCCTTTTATTCTTGCATTCCTTCTGGCCTTNTCATT CTTCTTAAAGATNAGANGATATGAAGGAANTATNGCTGACTTTTAANATNAGTG NGGGGANCGNTTTTNTNGAGGGGNCGGNNGACTNGTGTNGNNNCNNTGGGGGNG AGTNC	946	DIVLKLIGLPVDYCGSSL*IKFH L*FVGNSAEASINICVSCFSFYS CIPSGLXILLKDXXI*RXYX*LL XXVXGXXXXRGRXTXVXXXGXS
Human ADRB3_v3	4	prey96423	209	AAAATATCTAAATGTGGTCAGAGAGTGTGGCCATGACGTCACCTGCCCGGTGGC TAAAGAGATCATCTACACGTTAAAAGAGCGGGCGTATGTGGAGCAGATCGAGAA GGCGTTTAACTACGCCAGCAAGGTGCTGCTGGACTTCCTGATGGAGGAGAAGGA GCTGGTGGCTCACCTCAGGTCCATCAAGCGCTACTTCCTCATGGACCAGGGCGA CTTCTTCGTGCACTTCATGGACCTCGCGGAGGAGGAGCTCCGGAAGCCGGTGGA GGACATCACGCCCCCTCGCCTGGAAGCGCTCCTGGAGCTGGCGCTGCGCATGAG CACGGCCAACACTGACCCCTTCAAGGACGACCTCAAGATCGACCTGATGCCCCA TGACCTCATCACTCAGCTCTTGCGCGTCCTGGCCATCGAGACCAAGCAGGAGAA GGCGATGGCGCACGCCGACCCCACGGAGCTGGCGCTGAGCGGCCTGGAGGCCTT CTCTTTCGACTACATCGTCAAGTGGCCCCTTTCGCTCATCATCAACAGGAAAGC CCTCACTCGCTACCAGATGCTCTTCAGGCACATGTTCTATTGCAAGCACGTGGA GCGGCAGCTCTGCAGCGTCTGGATCAGCAACAAAACCGCCAAGCAGCACTCGCT GCACTCCGCCCAGTGGTTTGCTGGGGCTTTCACTCTGCGGCAGCGAATGCTCAA CTTCGTCCAGAATATTCAATACTACATGATGTTCGAAGTGATGGAACCGACCTG GCACATCCTGGAGAAAAACCTGAAATCCGCCTCCAACATTGACGACGTCCTTGG CCACCACACAGGCTTCCTGGACACCTGCCTGAAGGACTGCATGCTCACCAACCC CGAGCTGCTGAAGGTCTTCTCCAAGCTCATGTCTGTGTGCGTCATGTTCACCAA CTGCATGCAGAAATTTACACAGAGCATGAAATTAGATGGCGAGCTGGGCGGGCA GACGCTGGAGCACAGCACCGTCCTGGGGCTGCCCGCAGGGGCCGAGGAGCGGGC CCGGAAGGAGCTCGCCAGGAAGCACCTGGCTGAGCACGCAGACACTGTGCAGCT GGTGTCCGGCTTCGAGGCCACCATCAACAAGTTTGACAAGAACTTCTCAGCCCA CCTGCTGGACCTCCTGGCCCGGCTGAGCATCTATAGCACCAGTGACTGTGAGCA CGGCATGGCCAGCGTCATCTCCAGGCTTGACTTCAATGGTTTCTACACGGAGCG CCTGGAGCGCCTGTCTGCAGAGAGGAGCCAGAAGGCCACCCCCCAAGTGCCTGT CCTGCGGGGGCCCCCGGCTCCTGCACCCAGGGTCGCAGTCACCGCACAGTGA	947	KYLNVVRECGHDVTCPVAKEIIY TLKERAYVEQIEKAFNYASKVLL DFLMEEKELVAHLRSIKRYFLMD QGDFFVHFMDLAEEELRKPVEDI TPPRLEALLELALRMSTANTDPF KDDLKIDLMPHDLITQLLRVLAI ETKQEKAMAHADPTELALSGLEA FSFDYIVKWPLSLIINRKALTRY QMLFRHMFYCKHVERQLCSVWIS NKTAKQHSLHSAQWFAGAFTLRQ RMLNFVQNIQYYMMFEVMEPTWH ILEKNLKSASNIDDVLGHHTGFL DTCLKDCMLTNPELLKVFSKLMS VCVMFTNCMQKFTQSMKLDGELG GQTLEHSTVLGLPAGAEERARKE LARKHLAEHADTVQLVSGFEATI NKFDKNFSAHLLDLLARLSIYST SDCEHGMASVISRLDFNGFYTER LERLSAERSQKATPQVPVLRGPP APAPRVAVTAQ*
Human ADRB3_v3	4	prey96430	210	AATGCCCTTTTAATGACACTTGAAATTAATTCCTTTAGTGTAATCCTCTAGCAA AGAGATGAGAAAACTGAATTTGTAAAGCTTAATTTACCCAGAGATTTTGGTGT AGAAAAGGGCCATACATTTGTGAATAGATGCTTAAGTAGGTGATGAAAATAAAA TATCATTTGAGCAAACTGTCCTATACCAGAAAGTCTCAGGCACCAAAATAGCTT GGCAGGTTGTAAGATAATGTTCACTTCAAGGCTTTATCCTCAACAAATTAAAAC TAN	948	NALLMTLEINSFSVIL*QRDEKT EFVKLNFTQRFWCRKGPYICE*M LK*VMKIKYHLSKLSYTRKSQAP K*LGRL*DNVHFKALSSTN*NX

Human ADRB3_v3	4	prey96431	211	AGAAGTCTATTAGGTCTGCTTGGTGCAGAGCTGAGTTCAATTCCTGGGTATCCT TGTTAACTTTCTGTCTCGTTGATCTGTCTAATGTTGACAGTGGGGTGTTAAAGT CTCCCATTATTAATGTGTGGGAGTCTAAGTCTCTTTGTAGGTCACTCAAGACTT GCTTTATGAATCTGGGTGCTCCTGTATTGGGTGCATATATATTTANGATAGTTA GCTCTTNTTGNTGAATTGACCCNTTTACCATNNNGTANTGGGCCTTCTTTGTCN	949	RSLLGLLGAELSSIPGYPC*LSV SLICLMLTVGC*SLPLLMCGSLS LFVGHSRLAL*IWVLLYWVHIYL X*LALXXELTXLPXXXGPSLS
Human ADRB3_v3	4	prey9700	212	CAGCAGCATTGAACAGAAAGAAGAAAACAAGGGAGGAGAAGACAAGCTAAAAAT GATTCGGGAATATCGGCAAATGGTTGAGACTGAGCTAAAGTTAATCTGTTGTGA CATTCTGGATGTACTGGACAAACACCTCATTCCAGCAGCTAACACTGGCGAGTC CAAGGTTTTCTATTATAAAATGAAAGGGGACTACCACAGGTATCTGGCAGAATT TGCCACAGGAAACGACAGGAAGGAGGCTGCGGAGAACAGCCTAGTGGCTTATAA AGCTGCTAGTGATATTGCAATGACAGAACTTCCACCAACGCATCCTATTCGCTT AGGTCTTGCTCTCAATTTTTCCGTATTCTACTACGAAATTCTTAATTCCCCTGA CCGTGCCTGCAGGTTGGCAAAAGCAGCTTTTGATGATGCAATTGCAGAACTGGA TACGCTGAGTGAAGAAAGCTATAAGGACTCTACACTTATCATGCAGTTGTTACG TGATAATCTGACACTATGGACTTCAGACATGCAGGGTGACGGTGAAGAGCAGAA TAAAGAAGCGCTGCAGGACGTGGAAGACGAAAATCAGTGA	950	SSIEQKEENKGGEDKLKMIREYR QMVETELKLICCDILDVLDKHLI PAANTGESKVFYYKMKGDYHRYL AEFATGNDRKEAAENSLVAYKAA SDIAMTELPPTHPIRLGLALNFS VFYYEILNSPDRACRLAKAAFDD AIAELDTLSEESYKDSTLIMQLL RDNLTLWTSDMQGDGEEQNKEAL QDVEDENQ*
Human ADRB3_v3	4	prey35149	213	CCCCGTGCTGCTGACCGAGGCCCCCCTGAACCCCAAGGCCAACCGCGAGAAGAT GACCCAGATCATGTTTGAGACCTTCAACACCCCAGCCATGTACGTTGCTATCCA GGCTGTGCTATCCCTGTACGCCTCTGGCCGTACCACTGGCATCGTGATGGACTC CGGTGACGGGGTCACCCACACTGTGCCCATCTACGAGGGGTATGCCCTCCCCCA TGCCATCCTGCGTCTGGACCTGGCTGGCCGGGACCTGACTGACTACCTCATGAA GATCCTCACCGAGCGCGGCTACAGCTTCACCACCACGGCCGAGCGGGAAATCGT GCGTGACATTAAGGAGAAGCTGTGCTACGTCGCCCTGGACTTCGAGCAAGAGAT GGCCACGGCTGCTTCCAGCTCCTCCCTGGAGAAGAGCTACGAGCTGCCTGACGG CCAGGTCATCACCATTGGCAATGAGCGGTTCCGCTGCCCTGAGGCACTCTTCCA GCCTTCCTTCCTGGGCATGGAGTCCTGTGGCATCCACGAAACTACCTTCAACTC CATCATGAAGTGTGACGTGGACATCCGCAAAGACCTGTACGCCAACACAGTGCT GTCTGGCGGCACCACCATGTACCCTGGCATTGCCGACAGGATGCAGAAGGAGAT CACTGCCCTGGCACCCAGCACAATGAAGATCAAGATCATTGCTCCTCCTGAGCG CAAGTACTCCGTGTGGATCGGCGGCTCCATCCTGGCCTCGCTGTCCACCTTCCA GCAGATGTGGATCAGCAAGCAGGAGTATGACGAGTCCGGCCCCTCCATCGTCCA CCGCAAATGCTTCTAG	951	PVLLTEAPLNPKANREKMTQIMF ETFNTPAMYVAIQAVLSLYASGR TTGIVMDSGDGVTHTVPIYEGYA LPHAILRLDLAGRDLTDYLMKIL TERGYSFTTTAEREIVRDIKEKL CYVALDFEQEMATAASSSSLEKS YELPDGQVITIGNERFRCPEALF QPSFLGMESCGIHETTFNSIMKC DVDIRKDLYANTVLSGGTTMYPG IADRMQKEITALAPSTMKIKIIA PPERKYSVWIGGSILASLSTFQQ MWISKQEYDESGPSIVHRKCF*
Human ADRB3_v3	4	prey96433	214	AANNNGCTGNNGATTNCAAGGCTCTACACGCTNTNGAACCCTGGNCCTGAGTTA TGATTATCCTGTGCNNCTTCGACTAGGGCTGNGGTNTATNTAAAACAGCACTNN ACCATTGCTGCACAAATNAATGATTTGNNGNNCAAAACGGTGTCATATATTATC CTTGGAATGACCCATCATGCCTTGCACTAACTATTCCCAAGCAGNNNTGTACTT ACAGGAAGGTTTAANGTTAGCTGNNCNACTGGGTNCGGACNTTGGANGATGGGT TGTC	952	XXLXIXRLYTLXNPGPEL*LSCA XSTRAXVYXKQHXTIAAQXNDLX XKTVSYIILGMTHHALH*LFPSX XVLTGRFXVSXXTGXGXWXMGC
Human	4	hgx437	215	GAACCAGATCACATACAGGATCATTGGCTACACACCTGATCTGGACCCAGAGAC	953	NQITYRIIGYTPDLDPETVDDAF

ADRB3_v3				AGTGGATGATGCCTTTGCTCGTGCCTTCCAAGTCTGGAGCGATGTGACCCCACTGCGGTTTTCTCGAATCCATGATGGAGAGGCAGACATCATGATCAACTTTGGCCGCTGGGAGCATGGCGATGGATACCCCTTTGACGGTAAGGACGGACTCCTGGCTCATGCCTTCGCCCCAGGCACTGGTGTTGGGGGAGACTCCCATTTTGATGACGATGAGCT		ARAFQVWSDVTPLRFSRIHDGEADIMINFGRWEHGDGYPFDGKDGLLAHAFAPGTGVGGDSHFDDDE
Human ADRB3_v3	4	prey3033	216	CGCCGTCAGAGAGAGCCAGGTAGAGCTCCGGGAACAAATTGACAACCTAGCCACAGAACTGTGCCGCATAAATGAGGATCAGAAGGTGGCCCTGGATCTTGACCCCTATGTTAAGAAGCTACTTAATGCCCGGCGACGCGTTGTCTTGGTTAACAACATTCTACAGAATGCTCAGGAACGACTGAGACGGCTAAACCACAGTGTTGCCAAGGAAACAGCCCGCAGGAGAGCAATGCTGGATTCGGGAATTTACCCCCCTG	954	AVRESQVELREQIDNLATELCRINEDQKVALDLDPYVKKLLNARRRVVLVNNILQNAQERLRRLNHSVAKETARRRAMLDSGIYPP
Human ADRB3_v3	4	prey96448	217	CCGGCATCTTTTGGAGCAGCTTTGTCGGTGGGGGTGTCTTAACACTACTGGTGGAAGTCAGCAACATCTTCCTCACCATTCGCATGATGATGAAAATCAGTAATGCCCAGGATCATCTCCTCTACCGGGTTAACAAGTATGTGAACCTGGTCATGTACTTTCTCTTCCGCCTGGCCCCTCAGGCCTACCTCACCCATTTCTTCTTGCGTTATGTGAACCAGAGGACCCTGGGCACCTTCCTGCTGGGTATCCTGCTCATGCTGGACGTGATGATCATAATCTACTTTTCCCGCC	955	GIFWSSFVGGGVLTLLVEVSNIFLTIRMMMKISNAQDHLLYRVNKYVNLVMYFLFRLAPQAYLTHFFLRYVNQRTLGTFLLGILLMLDVMIIIYFSR
Human ADRB3_v3	4	prey89810	218	CGACCGCGATGATGTGGCTCTGGAAGGCGTGAGCCACTTCTTCCGCGAATTGGCCGAGGAGAAGCGCGAGGGCTACGAGCGTCTCCTGAAGATGCAAAACCAGCGTGGCGGCCGCGCTCTCTTCCAGGACATCAAGAAGCCAGCTGAAGATGAGTGGGGTAAAACCCCAGACGCCATGAAAGCTGCCATGGCCCTGGAGAAAAAGCTGAACCAGGCCCTTTTGGATCTTCATGCCCTGGGTTCTGCCCGCACGGACCCCCATCTCTGTGACTTCCTGGAGACTCACTTCCTAGATGAGGAAGTGAAGCTTATCAAGAAGATGGGTGACCACCTGACCAACCTCC	956	DRDDVALEGVSHFFRELAEEKREGYERLLKMQNQRGGRALFQDIKKPAEDEWGKTPDAMKAAMALEKKLNQALLDLHALGSARTDPHLCDFLETHFLDEEVKLIKKMGDHLTNL
Human ADRB3_v3	4	prey12105	219	ATGCATGTGATCAAGCGAGATGGCCGCCAAGAACGAGTCATGTTTGACAAAATTACATCTCGAATCCAGAAGCTTTGTTATGGACTCAATATGGATTTTGTTGATCCTGCTCAGATCACCATGAAAGTAATCCAAGGCTTGTACAGTGGGGTCACCACAGTGGAACTAGATACTTTGGCTGCTGAAACAGCTGCAACCTTGACTACTAAGCACCCTGACTATGCTATCCTGGCAGCCAGGATCGCTGTCTCTAACTTGCACAAAGAAACAAAGAAAGTGTTCAGTGATGTGATGGAAGACCTCTATAACTACATAAATCCACATAATGGCAAACACTCTCCCATGGTGGCCAAGTCAACATTGGATATTG	957	MHVIKRDGRQERVMFDKITSRIQKLCYGLNMDFVDPAQITMKVIQGLYSGVTTVELDTLAAETAATLTTKHPDYAILAARIAVSNLHKETKKVFSDVMEDLYNYINPHNGKHSPMVAKSTLDI
Human ADRB3_v3	4	prey87445	220	GTCTCACATCATCCAGAGGATGTATGGCTGCGACGTGGGGCCCGACGGGCGCCTCCTCCGCGGGTATGACCAGTACGCCTACGACGGCAAGGATTACATCGCCCTGAACGAGGATCTGCGCTCCTGGACCGCCGCGGACACGGCGGCTCAGATCACCCAGCGCAAGTGGGAGGCGGCCCGTGAGGCGGAGCAGCTGAGAGCCTACCTGGAGGGCCTGTGCGTGGAGTGGCTCCGCAGATACCTGAAGAATGGGAAGGAGACGCTGCAGCGCGCGGAACACCCAAAGAC	958	SHIIQRMYGCDVGPDGRLLRGYDQYAYDGKDYIALNEDLRSWTAADTAAQITQRKWEAAREAEQLRAYLEGLCVEWLRRYLKNGKETLQRAEHPK
Human ADRB3_v3	4	prey96459	221	GCAAATTTAGCACTGTTCCTTGGAAAACACCTCAGAGCAAATGAGCTACTGTTTCTGAATCAGTACTGTTATCTAGGTTAAGTAGTATATTTAGTCCTAACCTTTCTC	959	ANLALFLGKHLRANELLFLNQYCYLG*VVYLVLTFL*PLLFVRYQD

				TGACCTCTTCTGTTTGTGAGATATCAGGATGCTAAATTTAAAAATTAGCACCCT GCAGAATTCTGTACCTAGTGGCCTGGGAATTGTAACACCTGGGTGGTTTTCTTT ATGTTCTGTCTTCATCTCTTCCCTCACATTTAGCAGGTAGTCAGTACTTACCTG TTGGATTAAATTAACTCACTCAGAAATTCTGCATCAGGTGTACAAAAGTAAAAG CAGTTCATGTCTACATTCATTTGTGGACACAACACCCCTCCCCAAAGTTCTCC AAACATGATAATGGGCATGTCCCTTGATTTAAACGTCGGTAATTTAGAC		AKFKN*HPAEFCT*WPGNCNTWV VFFMFCLHLFPHI*QVVSTYLLD *INSLRNSASGVQK*KQFMSTFI LWTQHPSPKFSKHDNGHVP*FKR R*FR
Human ADRB3_v3	4	prey96461	222	GCAGGGCTGTTGGCAATAAATTCTCTTAGTTTTCTTTCATCTGAAAATGTTTTT ATTACAAGATTCATTCTTTAAGAATATTTTTGCTGGGTATAAAATTCTTGGTTG ACAGGTCTGTTTAATTTTTTTTGTGGGCTGTANNNATATTGNTGNNNTNTCTTG TGTGGNTTGGTTNGTNNTGGGGGGCCTNAGTGATTGGCTCCGCNNACTTTGNGG TGGTNGNTTTGGGGNACTNGGNTNTGGNGNTGNNCNCGGGGNGGCNGCGGNGCC CNGGGNATGNGG	960	AGLLAINSLSFLSSENVFITRFI L*EYFCWV*NSWLTGLFNFFCGL XXYXXXXLCGLVXXGGPX*LAPX TLXWXXWGTXXWXXXRGGXGAXG MX
Human ADRB3_v3	4	prey96464	223	CGGTGGTTAGTTAAGAGACTGGATGTGCTTGGATACAAAGTGGAAAGGGTGGTT GACTGCTGCCTTTGTTCCTTGAGAGACAACTCAATGGCTAGGAAAACAATGAGT TTTTAAAGACCCAAAATGNTNTNNTNTCCNNCAGTGTGNAGNAGTGGNAAAANN CGTGGGNNTGAGGGTGTTGTTGGTTNGGTGGTGTGGGGGGGGNGNTGGGGACGT GTGNNGGGTGGGGNGGGNCCGGNCGTGTGGGGGGGNTGGNNCTNTTTGNTGCGG GGCGNNCNCNGNTGNTNTTNTNNNNNNNCC	961	RWLVKRLDVLGYKVERVVDCCLC SLRDNSMARKTMSF*RPKMXXXP XVXXSGKXRGXEGVVGXVVWGGX WGRVXGGXGPXVWGGWXXLXRGX XXXXXXXX
Human OBRGRP_v 2	5	prey98419	224	GTCACTGGAACTTGCTCTTTTCACTCAGCAGCCAGAGGGTCATAAACCCTGTCT CCTTGTCAGCAAGCATGCACGTATTTCAGTATCCCAAGCTGTGGTGGATTCCAG TTACCCAGATATACAGCATTTCATGTACCTCCTTCTCTTTTGTTAGGTGTGCAA GCTATTTGCAGTTTTCTGTTTTGAGCATGACTGTGATGAATATAACCGCATTTC CGCACAGTGGTGACTCCTACCTAGCAAAGGGCCTCCTGGACAAAAAGCTGCTGG GAATCCTGAAGCAGTGCTTCCCAGCCCCAGATGCCTTAGCTTTTGATTTTTATA TTTTTGTATGGATAGATTCATAGTTTTATTCATTCGGCATATTAAAAGTTGTTT ACAGTCATTATTGTTTCTGACGTTCACATGGTGAAAGCCCC	962	VTGTCSFHSAARGS*TLSPCQQA CTYFSIPSCGGFQLPRYTAFHVP PSLLLGVQAICSFLF*A*L**I* PHFRTVVTPT*QRASWTKSCWES *SSASQPQMP*LLIFIFLYG*IH SFIHSAY*KLFTVIIVSDVHMVK A
Human OBRGRP_v 2	5	prey20369	225	CGAACCGAGCACTGAATCTCTCCAGTTCTTGTTAGATACATGTAAAGTTCTAGT CATTGGAGCTGGCGGCTTAGGATGTGAGCTCCTGAAAAATCTGGCCTTGTCTGG TTTTAGACAGATTCATGTTATAGATATGGACACTATAGATGTTTCCAATCTAAA TAGGCAGTTTTTATTTAGGCCTAAAGATATTGGAAGACCTAAGGCTGAAGTTGC TGCAGAATTTCTAAATGACAGAGTTCCTAATTGCAATGTAGTTCCACATTTCAA CAAGATTCAAGATTTTAACGACACTTTCTATCGACAATTTCATATTATTGTATG TGGACTGGACTCTATCATCGCCAGAAGATGGATAAATGGCATGCTGATATCTCT TCTAAATTATGAAGATGGTGTCTTAGATCCAAGCTCCATTGTCCCTTTGATAGA TGGGGGGACAGAAGGTTTTAAAGGAAATGCCCGGGTGATTCTGCCTGGAATGAC TGCTTGTATCGAATGCACGCTGGAACTTTATCCACCACAGGTTAATTTCCCAT GTGCA	963	EPSTESLQFLLDTCKVLVIGAGG LGCELLKNLALSGFRQIHVIDMD TIDVSNLNRQFLFRPKDIGRPKA EVAAEFLNDRVPNCNVVPHFNKI QDFNDTFYRQFHIIVCGLDSIIA RRWINGMLISLLNYEDGVLDPSS IVPLIDGGTEGFKGNARVILPGM TACIECTLELYPPQVNFPMC
Human	5	prey98422	226	TGGCTTCTCTGACCCATTAACCTTCAGTTCTGTGGTTGAATTAATAAACCACTA	964	GFSDPLTFSSVVELINHYRNESL

OBRGRP_v 2				CCGGAATGAATCTCTAGCTCAGTATAATCCCAAATTGGATGTGAAATTACTTTATCCAGTATCCAAATACCAACAGGATCAAGTTGTCAAAGAAGATAATATTGAAGCTGTAGGGAAAAAATTACATGAATATAACACTCAGTTTCAAGAAAAAAGTCGAGAATATGATAGATTATATGAAGAATATACCCGCACATCCCAGGAAATCCAAATGAAAAGGACAGCTATTGAAGCATTTAATGAAACCATAAAAATATTTGAAGAACAGTGCCAG		AQYNPKLDVKLLYPVSKYQQDQVVKEDNIEAVGKKLHEYNTQFQEKSREYDRLYEEYTRTSQEIQMKRTAIEAFNETIKIFEEQCQ
Human OBRGRP_v 2	5	prey45676	227	CCGGCTTATGGTTTCAATGCTGGATAGAGATATGTCTGGCACAATGGGTTTCAATGAATTTAAAGAACTCTGGGCTGTACTGAATGGCTGGAGACAACACTTTATCAGTTTTGACACTGACAGGAGTGGAACAGTAGACCCACAAGAATTGCAGAAGGCCCTGACAACAATGGGATTTAGGTTGAGTCCCCAGGCTGTGAATTCAATTGCAAAACGATACAGCACCAATGGAAAGATCACCTTCGACGACTACATCGCCTGCTGCGTCAAACTGAGGGCTCTTACAGACAGCTTTCGAAGACGGGATACTGCTCAGCAAGGTGTTGTGAATTTCCCATATGATGATTTCATTCAATGTGTCATGAGTGTTTAA	965	RLMVSMLDRDMSGTMGFNEFKELWAVLNGWRQHFISFDTDRSGTVDPQELQKALTTMGFRLSPQAVNSIAKRYSTNGKITFDDYIACCVKLRALTDSFRRRDTAQQGVVNFPYDDFIQCVMSV*
Human OBRGRP_v 2	5	prey6586	228	GTCCTACCTGCCTGTGCTGCCGGGGGACTACAGCATTCTAGTCAAGTACAATGAACAGCACGTCCCAGGCAGCCCCTTCACTGCTCGGGTCACAGGTGACGACTCCATGCGTATGTCCCACCTAAAGGTCGGCTCTGCTGCCGACATCCCCATCAACATCTCAGAGACGGATCTCAGCCTGCTGACGGCCACTGTGGTCCCGCCCTCGGGCCGGGAGGAGCCCTGTTTGCTGAAGCGGCTGCGTAATGGCCACGTGGGGATTTCATTCGTGCCCAAGGAGACGGGGGAGCACCTGGTGCATGTGAAGAAAAATGGCCAGCACGTGGCCAGCAGCCCCATCCCGGTGGTGATCAGCCAGTCGGAAATTGGGGATGCCAGTCGTGTTCGGGTCTCTGGTCAGGGCCTTCACGAAGGCCACACCTTTGAGCCTGCAGAGTTTATCATTGATACCCGCGATGCAGGCTATGGTGGGCTCAGCCTGTCCATTGAGGGCCCCAGCAAGGTGGACATCAACACAGAGGACCTGGAGGACGGGACGTGCAGGGTCACCTACTGCCCCACAGAGCCAGGCAACTACATCATCAACATCAAGTTTGCC	966	SYLPVLPGDYSILVKYNEQHVPGSPFTARVTGDDSMRMSHLKVGSAADIPINISETDLSLLTATVVPPSGREEPCLLKRLRNGHVGISFVPKETGEHLVHVKKNGQHVASSPIPVVISQSEIGDASRVRVSGQGLHEGHTFEPAEFIIDTRDAGYGGLSLSIEGPSKVDINTEDLEDGTCRVTYCPTEPGNYIINIKFA
Human OBRGRP_v 2	5	prey2557	229	ACGGCGGCCTCTGAGCACCTCGGAGAAAGTGAAGGTCCGCACGCTGAGCGTGGAGCAGAGGACCCGTGAGGACATTGAAGGCAGCCACTGGAATGAGGGCTTGCTGCTGGGGCGGCCCCCCGAGGAGCCTGAGCAGCCCCTCACCGAGAACTCGCTGCTGGAAGTCCTGGATGGGGCGGTCATGATGTACAACCTCAGCGTACACCAGCAGCTGGGCAAGATGGTGGGTGTCTCCGATGATGTCAATGAATACGCTATGGCTCTGAGGGACACAGAGGACAAGCTCCGCCGGTGCCCCAAGAGGAGGAAGGACATCCTTGCAGAGTTGACCAAGAGCCAGAAGGTTTTCTCAGAAAAGCTGGACCACCTGAGCCGCCGTCTTGCCTGGGTCCATGCCACTGTCTACTCCCAGGAGAAGATGCTGGACATCTACTGGCTGCTGCGCGTCTGCCTGCGGACCATTGAGCACGGTGATCGCACAGGGTCTCTCTTTGCCTTCATGCCCGAGTTCTACCTGAGCGTGGCCATCAACAGCTACAGTGCTCTCAAGAATTACTTTGGTCCCGTGCACAGCATGGAGGAGCTCCCAGGCTATGAAGAGACCCTGACCCGCCTGGCTGCCATTCTCGCCAA	967	RRPLSTSEKVKVRTLSVEQRTREDIEGSHWNEGLLLGRPPEEPEQPLTENSLLEVLDGAVMMYNLSVHQQLGKMVGVSDDVNEYAMALRDTEDKLRRCPKRRKDILAELTKSQKVFSEKLDHLSRRLAWVHATVYSQEKMLDIYWLLRVCLRTIEHGDRTGSLFAFMPEFYLSVAINSYSALKNYFGPVHSMEELPGYEETLTRLAAILA
Human OBRGRP_v	5	prey18159	230	CTGGTGGGTCTTCAAACAACTCTATGATAAAGGCCTTGTTTATAGAGGTGTGAAAGTCATGCCCTTCTCTACGGCATGTAACACTCCACTTTCCAACTTCGAGTCACA	968	WWVFKQLYDKGLVYRGVKVMPFSTACNTPLSNFESHQNYKDVQDPS

2				CCAGAATTATAAGGATGTTCAAGATCCTTCAGTATTTGTAACTTTCCCTTTGGA AGAAGATGAAACTGTATCTTTAGTTGCTTGGACAACCACTCCCTGGACTCTACC TAGTAACCTTGCTGTGTGTGTTAATCCAGAAATGCAATATGTGAAAATTAAAGA TGTTGCCAGAGGACGATTACTCATTTTAATGGAAGCCAGATTGTCAGCCCTCTA TAAATTGGAGAGTGACTATGAGATCCTTGAAAGATTTCCTGGTGCCTATCTTAA AGGCAAGAAGTACAGGCCCCTGTTTGACTATTTCCTGAAGTGTAAAGAGAATGG CGCTTTCACTGTGCTTGTTGACAACTATGTGAAGGAAGAAGAAGGCACAGGGGT TGTCCACCAAGCTCCTTACTTCGGTGCTGAGGACTATCGGGTCTGTATGGACTT TAACATTATTCGGAAAGACTCACTCCCTGTTTGCCCTGTGGATGCTTCAGGCTG CTTCACAACGGAGGTGACAGATTTCGCAGGACAGTATGTGAAGGATGCTGACAA AAGTATCATCAGGACTTTGAAGGAACAAGGCCGACTTCTGGTTGCCACCACCTT CACTCACAGCTACCCTTTTTGCTGGAGATCAGACACTCCTCTAATTTACAAAGC AGTGCCCAGCTGGTTTGTGCGAGTGGAGAACATGGTGGACCAGCTCCTAAGGAA CAATGACCTGTGCTACTGGGTCCCAGAGTTGGTACGAGAAAAACGATTTGGAAA TTGGCTGAAAGATGCACGTGACTGGACAATTTCCAGAAACAGATACTGGGGCAC CCCCATCCCACTGTGGGTCAGCGATGACTTTGAGGAGGTGGTATGCATTGGGTC AGTGGCGGAACTTGAAGAACTGTCAGGAGCAAAGATCTCAGATCTCCACAGAGA GAGTGTTGACCACCTGACCATTCCTTCACGCTGTGGAAGGGATCCTTGCACCG CATCTCTGAAGTGTTTGACTGTTGGTTTGAGAGTGGCAGCATGCCCTATGCTCA GGTTCATTACCCGTTTGAAAACAAG		VFVTFPLEEDETVSLVAWTTTPW TLPSNLAVCVNPEMQYVKIKDVA RGRLLILMEARLSALYKLESDYE ILERFPGAYLKGKKYRPLFDYFL KCKENGAFTVLVDNYVKEEEGTG VVHQAPYFGAEDYRVCMDFNIIR KDSLPVCPVDASGCFTTEVTDFA GQYVKDADKSIIRTLKEQGRLLV ATTFTHSYPFCWRSDTPLIYKAV PSWFVRVENMVDQLLRNNDLCYW VPELVREKRFGNWLKDARDWTIS RNRYWGTPIPLWVSDDFEEVVCI GSVAELEELSGAKISDLHRESVD HLTIPSRCGKGSLHRISEVFDCW FESGSMPYAQVHYPFENK
Human OBRGRP_v 2	5	prey72406	231	TGGAATCCCAGCGGATATTAAACTTTTTGATATATTTTCACAGCAGGTGGCTAC AGTGATACAGTCTAGACAAGACATGCCTTCAGAGGATGTTGTATCTTTACAAGT CTCTCTGATTAATCTTGCCATGAAATGTTACCCTGATCGTGTGGACTATGTTGA TAAAGTTCTAGAAACAACAGTGGAGATATTCAATAAGCTCAACCTTGAACATAT TGCTACCAGTAGTGCAGTTTCAAAGGAACTCACCAGACTTTTGAAAATACCAGT TGACACTTACAACAATATTTTAACAGTCTTGAAATTAAAACATTTTCACCCACT CTTTGAGTACTTTGACTACGAGTCCAGAAAGAGCATGAGTTGTTATGTGCTTAG TAATGTTCTGGATTATAACACAGAAATTGTCTCTCAAGACCAGGTGGATTCCAT AATGAATTTGGTATCCACGTTGATTCAAGATCAGCCAGATCAACCTGTAGAAGA CCCTGATCCAGAAGATTTTGCTGATGAGCAGAGCCTTGTGGGCCGCTTCATTCA TCTGCTGCGCTCTGAGGACCCTGACCAGCAGTACTTGATTTTGAACACAGCACG AAAACATTTTGGAGCTGGTGGAAATCAGCGGATTCGCTTCACACTGCCACCTTT GGTATTTGCAGCTTACCAGCTGGCTTTTCGATATAAAGAGAATTCTAAAGTGGA TGACAAATGGGAAAAGAAATGCCAGAAGATTTTTTCATTTGCCCACCAGACTAT CAGTGCTTTGATCAAAGCAGAGCTGGCAGAATTGCCCCTTAAGACTTTTTCTTCA AGGAGCACTAGCTGCTGGGGAAATTGGTTTTGAAAATCATGAGACAGTCGCATA TGAATTCATGTCCCAGGCATTTTCTCTGTATGAAGATGAAATCAGCGATTCCAA AGCACAGCTAGCTGCCATCACCTTGATCATTGGCACTTTTGAAAGGATGAAGTG CTTCAGTGAAGAGAATCATGAACCTC	969	GIPADIKLFDIFSQQVATVIQSR QDMPSEDVVSLQVSLINLAMKCY PDRVDYVDKVLETTVEIFNKLNL EHIATSSAVSKELTRLLKIPVDT YNNILTVLKLKHFHPLFEYFDYE SRKSMSCYVLSNVLDYNTEIVSQ DQVDSIMNLVSTLIQDQPDQPVE DPDPEDFADEQSLVGRFIHLLRS EDPDQQYLILNTARKHFGAGGNQ RIRFTLPPLVFAAYQLAFRYKEN SKVDDKWEKKCQKIFSFAHQTIS ALIKAELAELPLRLFLQGALAAG EIGFENHETVAYEFMSQAFSLYE DEISDSKAQLAAITLIIGTFERM KCFSEENHEP

Human OBRGRP_v 2	5	prey2109	232	GGATCACCATTACTTTAAGTACTGCAAAATCTCAGCATTGGCTCTTCTGAAGAT GGTGATGCATGCCAGATCGGGAGGCAATTTGGAAGTGATGGGTCTGATGCTAGG AAAGGTGGATGGTGAAACCATGATCATTATGGACAGTTTTGCTTTGCCTGTGGA GGGCACTGAAACCCGAGTAAATGCTCAGGCTGCTGCATATGAATACATGGCTGC ATACATAGAAAATGCAAAACAGGTTGGCCGCCTTGAAAATGCAATCGGGTGGTA TCATAGCCACCCTGGCTATGGCTGCTGGCTTTCTGGGATTGATGTTAGTACTCA GATGCTCAATCAGCAGTTCCAGGAACCATTTGTAGCAGTGGTGATTGATCCAAC AAGAACAATATCCGCAGGGAAAGTGAATCTTGGCGCCTTTAGGACATACCCAAA GGGCTACAAACCTCCTGATGAAGGACCTTCTGAGTACCAGACTATTCCACTTAA TAAAATAGAAGATTTTGGTGTACACTGCAAACAATATTATGCCTTAGAAGTCTC ATATTTCAAATCCTCTTTGGATCGCAAATTGCTTGAGCTGTTGTGGAATAAATA CTGGGTGAATACGTTGAGTTCTTCTAGCTTGCTTACTAATGC	970	DHHYFKYCKISALALLKMVMHAR SGGNLEVMGLMLGKVDGETMIIM DSFALPVEGTETRVNAQAAAYEY MAAYIENAKQVGRLENAIGWYHS HPGYGCWLSGIDVSTQMLNQQFQ EPFVAVVIDPTRTISAGKVNLGA FRTYPKGYKPPDEGPSEYQTIPL NKIEDFGVHCKQYYALEVSYFKS SLDRKLLELLWNKYWVNTLSSSS LLTN
Human OBRGRP_v 2	5	prey98439	233	GCAAGACAATCTATTTGCCACTCCTGCTTTATAAGAATAATCTTTTAGTTAATA GCAGAAGTTTGCCGCTAATGTTTCTTACTTTGAACCCTGTTTAATCTTGTTTAG CCCATTTATAGCGTTTAAAACTATTATTTATAACTTAATAGCAACAGTGTCGAT AATGTGTCTTTGAAAGCCTAGTATAAAAAATTACAGTATAAAATTTCTACCCAT TGCTACTGTACAACTTTTGGGAAAGGGCAACAAAGTACTTTTTTGTGAAATGAT CACTAATAAT	971	ARQSICHSCFIRIIF*LIAEVCR *CFLL*TLFNLV*PIYSV*NYYL *LNSNSVDNVSLKA*YKKLQYKI STHCYCTTFGKGQQSTFL*NDH* *
Human OBRGRP_v 2	5	prey98442	234	AAAAGGTGAAAACGGCAAAATAATTTTGGAAACAAAGGCAGTGATTCCCGGTGA CGAAGATGCTTCGTTTCCCCCTCTGAAGTCTGAGGACAGTGGGATCGGGCTCAG TGCCTCGTCACCGGAGCTCTCTGAGCACTTGAGGGTTCCTCGAGTTTCTCTGGA AAGGGACGACGTTTGGAAGAAGGGCGGGAGCATGCAGAGGACGTTTCTTTGCAT CCAAGAGCTAATCGCCAACTTTGCCAGCAAGAACATTTTTGGAGTACAGCTGAC AGCGTCAGGAGAAGAAAGCAAGTCCGAGGAGCCTGCAGGGAAGAGGGACAGGGA TGGGACGCAGAGCCTGGCAGCCAATGATTCCAGCAGGAAGAACTCTTGGGAGCC CAAGCCCATCACTGTGCCTCAGTTCAAGCAGATGCTGTCAGACTTGTTCACAGC ACGAGGGTCTCCATTCAAGACAAAAAGTTCAGAGTCACCATCGTCTTCGCCCAG CAGCCCTGCCAGGAAAAACGGGGGAGAATGGGATGTTGAGAAGGTGGTCATTGA CCTGGGGGGTTCCAGGGAGGAACGCAGGGAGGCCTTTGCCGCCGCCTGCCACCT GCTGCTGGATTGTGCCACTTTCCCTGTCTACCTGTCCGAGGAAGAGACCGAGCA GCTCTGTGCAACGCTCTTCCAGCTGCCAGGAGCCGGTGATTCCAGTTTTCCATC TTGGCTGAAGTCCCTCATGACTATTTGCTGCTGTGTGACTGACTGCTACCTCCA GAACGTGGCCATTTCCACTCTGCTGGAAGTGATAAACCATTCCCAGTCCCTGGC GCTTGTCATTGAAGACAAGATGAAACGCTATAAGAGCTCTGGACACA	972	KGENGKIILETKAVIPGDEDASF PPLKSEDSGIGLSASSPELSEHL RVPRVSLERDDVWKKGGSMQRTF LCIQELIANFASKNIFGVQLTAS GEESKSEEPAGKRDRDGTQSLAA NDSSRKNSWEPKPITVPQFKQML SDLFTARGSPFKTKSSESPSSSP SSPARKNGGEWDVEKVVIDLGGS REERREAFAAACHLLLDCATFPV YLSEEETEQLCATLFQLPGAGDS SFPSWLKSLMTICCCVTDCYLQN VAISTLLEVINHSQSLALVIEDK MKRYKSSGH
Human OBRGRP_v 2	5	prey81117	235	ATGTCTCTGTCTCGCTCAGAGGAGATGCACCGGCTCACGGAAAATGTCTATAAG ACCATCATGGAGCAGTTCAACCCTAGCCTCCGGAACTTCATCGCCATGGGGAAG AATTACGAGAAGGCACTGGCAGGTGTGACGTATGCAGCCAAAGGCTACTTTGAC GCCCTGGTGAAGATGGGGGAGCTGGCCAGCGAGAGCCAGGGCTCCAAAGAACTC GGAGACGTTCTCTTCCAGATGGCTGAAGTCCACAGGCAGATCCAGAATCAGCTG	973	MSLSRSEEMHRLTENVYKTIMEQ FNPSLRNFIAMGKNYEKALAGVT YAAKGYFDALVKMGELASESQGS KELGDVLFQMAEVHRQIQNQLEE MLKSFHNELLTQLEQKVELDSRY

				GAAGAAATGCTGAAGTCTTTTCACAACGAGCTGCTTACGCAGCTGGAGCAGAAG GTGGAGCTGGACTCCAGGTATCTGAGTGCTGCGCTGAAGAAATACCAGACTGAG CAAAGGAGCAAAGGCGACGCCCTGGACAAGTGTCAGGCTGAGCTGAAGAAGCTT CGGAAGAAGAGCCAGGGCAGCAAGAATCCTCAGAAGTACTCGGACAAGGAGC		LSAALKKYQTEQRSKGDALDKCQ AELKKLRKKSQGSKNPQKYSDKE
Human OBRGRP_v 2	5	prey22	236	ATGGCGGCGGAGCTGGTGGAGGCCAAAAACATGGTGATGAGTTTTCGAGTCTCC GACCTTCAGATGCTCCTGGGTTTCGTGGGCCGGAGTAAGAGTGGACTGAAGCAC GAGCTCGTCACCAGGGCCCTCCAGCTGGTGCAGTTTGACTGTAGCCCTGAGCTG TTCAAGAAGATCAAGGAGCTGTACGAGACCCGCTACGCCAAGAAGAACTCGGAG CCTGCCCCACAGCCGCACCGGCCCCTGGACCCCCTGACCATGCACTCCACCTAC GACCGGGCCGGCGCTGTGCCCAGGACTCCGCTGGCAGGCCCCAATATTGACTAC CCCGTGCTCTACGGAAAGTACTTAAACGGACTGGGACGGTTGCCCGCCAAGACC CTCAAGCCAGAAGTCCGCCTGGTGAAGCTGCCGTTCTTTAATATGCTGGATGAG CTGCTGAAGCCCACCGAATTAGTCCCACAGAACAACGAGAAGCTTCAGGAGAGC CCGTGCATCTTCGCATTGACGCCAAGACAGGTGGAGTTGATCCGGAAATTCCAG GGAATGCAGCCCGGAGTTAAAGCCGTGCAGGTCGTCCTGAGAATCTGTTACTCA GACACCAGCTGCCCTCAGGAGGACCAGTACCCGCCCAACATCGCTGTGAAGGTC AACCACAGCTACTGCTCCGTCCCGGGCTACTACCCCTCCAATAAGCCCGGGGTG GAGCCCAAGAGGCCGTGCCGCCCCATCAACCTCACTCACCTCATGTACCTGTCC TCGGCCACCAACCGCATCACTGTCACCTGGGGGAACTACGGCAAGAGCTACTCG GTGGCCCTGTACCTGGTGCGGCAGCTGACCTCATCGGAGCTGCTGCAGAGGCTG AAGACCATTGGGGTAAAGCACCCGGAGCTGTGCAAGGCACTGGTCAAGGAGAAG CTGCGCCTTGATCCTGACAGCGAGATCGCCACCACCGGTGTGCGGGTGTCCCTC ATCTGTCCGCTGGTGAAGATGCGGCTCTCCGTGCCCTGCCGGGCAGAAACCTGC GCCCACCTGCAGTGCTTCGACGCCGTCTTCTACCTGCAGATGAACGAGAAGAAG CCCACCTGGATGTGCCCCGTGTGCGACAAGCCAGCCCCCTACGACCAGCTCATC ATCGACGGGCTCCTCTCGAAGATCCTGAGCGAGTGTGAGGACGCCGACGAGATC GAGTACCTGGTGGACGGCTCGTGGTGCCCGATCCGCGCCGAAAAGGAGCGCAGC TGCAGCCCGCAGGGCGCCATCCTCGTGCTGGGCCCCTCGGACGCCAATGGGCTC CTGCCCGCCCCCAGCGTCAACGGGAGCGGTGCCCTGGGCAGCACGGGTGGCGGC GGCCCGGTGGGCAGCATGGAGAATGGGAAGCCGGGCGCCGATGTGGTGGACCTC ACGCTGGACAGCTCATCGTCCTCGGAGGATGAGGAGGAGGAGGAAGAGGAGGAG GAAGACGAGGACGAAGAGGGGCCCCGGCCCAAGCGCCGCTGCCCCTTCCAGAAG GGCCTGGTGCCGGCCTGCTGA	974	MAAELVEAKNMVMSFRVSDLQML LGFVGRSKSGLKHELVTRALQLV QFDCSPELFKKIKELYETRYAKK NSEPAPQPHRPLDPLTMHSTYDR AGAVPRTPLAGPNIDYPVLYGKY LNGLGRLPAKTLKPEVRLVKLPF FNMLDELLKPTELVPQNNEKLQE SPCIFALTPRQVELIRKFQGMQP GVKAVQVVLRICYSDTSCPQEDQ YPPNIAVKVNHSYCSVPGYYPSN KPGVEPKRPCRPINLTHLMYLSS ATNRITVTWGNYGKSYSVALYLV RQLTSSELLQRLKTIGVKHPELC KALVKEKLRLDPDSEIATTGVRV SLICPLVKMRLSVPCRAETCAHL QCFDAVFYLQMNEKKPTWMCPVC DKPAPYDQLIIDGLLSKILSECE DADEIEYLVDGSWCPIRAEKERS CSPQGAILVLGPSDANGLLPAPS VNGSGALGSTGGGGPVGSMENGK PGADVVDLTLDSSSSSEDEEEEE EEEEDEDEEGPRPKRRCPFQKGL VPAC*
Human OBRGRP_v 2	5	prey54659	237	CGACCGGGTGCTGCGGGCCATGCTGAAGGCGGAGGAGACCTGCGCGCCCTCGGT GTCCTACTTCAAATGTGTGCAGAAGGAGGTCCTGCCGTCCATGCGGAAGATCGT CGCCACCTGGATGCTGGAGGTCTGCGAGGAACAGAAGTGCGAGGAGGAGGTCTT CCCGCTGGCCATGAACTACCTGGACCGCTTCCTGTCGCTGGAGCCCGTGAAAAA GAGCCGCCTGCAGCTGCTGGGGGCCACTTGCATGTTCGTGGCCTCTAAGATGAA GGAGACCATCCCCCTGACGGCCGAGAAGCTGTGCATCTACACCGACAACTCCAT	975	DRVLRAMLKAEETCAPSVSYFKC VQKEVLPSMRKIVATWMLEVCEE QKCEEEVFPLAMNYLDRFLSLEP VKKSRLQLLGATCMFVASKMKET IPLTAEKLCIYTDNSIRPEELLQ MELLLVNKLKWNLAAMTPHDFIE

				CCGGCCCGAGGAGCTGCTGCAAATGGAGCTGCTCCTGGTGAACAAGCTCAAGTG GAACCTGGCCGCAATGACCCCGCACGATTTCATTGAACACTTCCTCTCCAAAAT GCCAGAGGCGGAGGAGAACAAACAGATCATCCGCAAACACGCGCAGACCTTCGT TGCCCTCTGTGCCACAGATGTGAAGTTCATTTCCAATCCGCCCTCCATGGTGGC AGCGGGGAGCGTGGTGGCCGCAGTGCAAGGCCTGAACCTGAGGAGCCCCAACAA CTTCCTGTCCTACTACCGCCTCACACGCTTCCTCTCCAGAGTGATCAAGTGTGA CCCAGACTGCCTCCGGGCCTGCCAGGAGCAGATCGAAGCCCTGCTGGAGTCAAG CCTGCGCCAGGCCCAGCAGAACATGGACCCCAA		HFLSKMPEAEENKQIIRKHAQTF VALCATDVKFISNPPSMVAAGSV VAAVQGLNLRSPNNFLSYYRLTR FLSRVIKCDPDCLRACQEQIEAL LESSLRQAQQNMDP
Human OBRGRP_v 2	5	prey95617	238	GGATCAAGAGCCTAAAGGAATTTTCAGAATCAATGAGAACACAGGGAGCGTCTC CGTGACACGGACCTTGGACAGAGAAGTAATCGCTGTTTATCAACTATTTGTGGA GACCACTGATGTCAATGGCAAAACTCTCGAGGGGCCGGTGCCTCTGGAAGTCAT TGTGATTGATCAGAATGACAACCGACCGATCTTTCGGGAAGGCCCCTACATCGG CCACGTCATGGAAGGGTCACCCACAGGCACCACAGTGATGCGGATGACAGCCTT TGATGCAGATGACCCAGCCACCGATAATGCCCTCCTGCGGTATAATATCCGTCA GCAGACGCCTGACAAGCCATCTCCCAACATGTTCTACATCGATCCTGAGAAAGG AGACATTGTCACTGTTGTGTCACCTGCGCTGCTGGACCGAGAGACTCTGGAAAA TCCCAAGTATGAACTGATCATCGAGGCTCAAGATATGGCTGGACTGGATGTTGG ATTAACAGGCACGGCCACAGCCACGATCATGATCGATGACAAAAATGATCACTC ACCAAAATTCACCAAGAAAGAGTTTCAAGCCACAGTCGAGGAAGGAGCTGTGGG AGTTATTGTCAATTTGACAGTTGAAGATAAGGATGACCCCACCACAGGTGCATG GAGGGCTGCCTACACCATCATCAACGGAAACCCCGGGCAGAGCTTTGAAATCCA CACCAACCCTCAAACCAACGAAGGGATGCTTTCTGTTGTCAAACCATTGGACTA TGAAATTTCTGCCTTCCACACCCTGCTGATCAAAGTGGAAAATGAAGACCCACT CGTACCCGACG	976	DQEPKGIFRINENTGSVSVTRTL DREVIAVYQLFVETTDVNGKTLE GPVPLEVIVIDQNDNRPIFREGP YIGHVMEGSPTGTTVMRMTAFDA DDPATDNALLRYNIRQQTPDKPS PNMFYIDPEKGDIVTVVSPALLD RETLENPKYELIIEAQDMAGLDV GLTGTATATIMIDDKNDHSPKFT KKEFQATVEEGAVGVIVNLTVED KDDPTTGAWRAAYTIINGNPGQS FEIHTNPQTNEGMLSVVKPLDYE ISAFHTLLIKVENEDPLVPD
Human OBRGRP_v 2	5	prey9880	239	GGCGGGCTCCGGAGCCGGTGTGCGTTGCTCCCTGCTGCGGCTGCAGGAGACCTT GTCCGCTGCGGACCGCTGCGGTGCTGCCCTGGCCGGTCATCAACTGATCCGCGG CCTGGGGCAGGAATGCGTCCTGAGCAGCAGCCCCGCGGTGCTGGCATTACAGAC ATCTTTAGTTTTTTCCAGAGATTTCGGTTTGCTTGTATTTGTCCGGAAGTCACT CAACAGTATTGAATTTCGTGAATGTAGAGAAGAAATCCTAAAGTTTTTATGTAT TTTCTTAGAAAAAATGGGCCAGAAGATCGCACCTTACTCTGTTGAAATTAAGAA CACTTGTACCAGTGTTTATACAAAAGATAGAGCTGCTAAATGTAAAATTCCAGC CCTGGACCTTCTTATTAAGTTACTTCAGACTTTTAGAAGTTCTAGACTCATGGA TGAATTTAAAATTGGAGAATTATTTAGTAAATTCTATGGAGAACTTGCATTGAA AAAAAAAATACCAGATACAGTTTTAGAAAAAGTATATGAGCTCCTAGGATTATT GGGTGAAGTTCATCCTAGTGAGATGATAAATAATGCAGAAAACCTGTTCCGCGC TTTTCTGGGTGAACTTAAGACCCAGATGACATCAGCAGTAAGAGAGCCCAAACT ACCTGTTCTGGCAGGATGTCTGAAGGGGTTGTCCTCACTTCTGTGCAACTTCAC TAAGTCCATGGAAGAAGATCCCCAGACTTCAAGGGAGATTTTTAATTTTGTACT AAAGGCAATTCGTCCTCAGATTGATCTGAAGAGATATGCTGTGCCCTCAGCTGG	977	AGSGAGVRCSLLRLQETLSAADR CGAALAGHQLIRGLGQECVLSSS PAVLALQTSLVFSRDFGLLVFVR KSLNSIEFRECREEILKFLCIFL EKMGQKIAPYSVEIKNTCTSVYT KDRAAKCKIPALDLLIKLLQTFR SSRLMDEFKIGELFSKFYGELAL KKKIPDTVLEKVYELLGLLGEVH PSEMINNAENLFRAFLGELKTQM TSAVREPKLPVLAGCLKGLSSLL CNFTKSMEEDPQTSREIFNFVLK AIRPQIDLKRYAVPSAGLRLFAL HASQFSTCLLDNYVSLFEVLLKW CAHTNVELKKAALSALESFLKQV SNMVA

				CTTGCGCCTATTTGCCCTGCATGCATCTCAGTTTAGCACCTGCCTTCTGGACAACTACGTGTCTCTATTTGAAGTCTTGTTAAAGTGGTGTGCCCACACAAATGTAGAATTGAAAAAAGCTGCACTTTCAGCCCTGGAATCCTTTCTGAAACAGGTTTCTAATATGGTGGCGA		
Human OBRGRP_v 2	5	prey3033	240	CGCCGTCAGAGAGAGCCAGGTAGAGCTCCGGGAACAAATTGACAACCTAGCCACAGAACTGTGCCGCATAAATGAGGATCAGAAGGTGGCCCTGGATCTTGACCCCTATGTTAAGAAGCTACTTAATGCCCGGCGACGCGTTGTCTTGGTTAACAACATTCTACAGAATGCTCAGGAACGACTGAGACGGCTAAACCACAGTGTTGCCAAGGAAACAGCCCGCAGGAGAGCAATGCTGGATTCGGGAATTTACCCCCCTGGCTCCCCAGGCAAATAA	978	AVRESQVELREQIDNLATELCRINEDQKVALDLDPYVKKLLNARRRVVLVNNILQNAQERLRRLNHSVAKETARRRAMLDSGIYPPGSPGK*
Human OBRGRP_v 2	5	prey16974	241	GGCGGAGGGGGACAGCGACTCCCGGCCCGGACAGGAGTTGTTAGTGGCCTGGAACACCGTGAGCACCGGCCTGGTGCCGCCGGCTGCGCTGGGGCTGGTGTCTTCCCGGACCAGCGGTGCAGTCCCGCCAAAGGAAGAGGAGCTCCGGGCGGCGGTGGAGGTTCTGAGGGGCCACGGGCTACACTCGGTCCTGGAGGAGTGGTTCGTGGAGGTGCTGCAGAACGATCTGCAGGCCAACATCTCCCCTGAGTTCTGGAATGCCATCTCCCAATGCGAGAACTCTGCGGATGAGCCCCAGTGCCTTTTGCTACTCCTTGACGCTTTTGGCCTGCTGGAGAGCCGCCTGGATCCCTACCTGCGTAGCCTAGAGCTGCTGGAGAAATGGACTCGCCTGGGCTTGCTGATGGGCACTGGTGCTCAGGGGCTGCGAGAAGAAGTCCACACTATGTTGCGCGGAGTCTTGTTCTTTAGCACCCCCAGAACCTTCCAAGAGATGATCCAGCGTCTGTATGGGTGCTTCTTGAGAGTCTATATGCAGAGTAAGAGGAAGGGGGAAGGGGGCACAGACCCGGAACTGGAAGGGGAGCTGG	979	AEGDSDSRPGQELLVAWNTVSTGLVPPAALGLVSSRTSGAVPPKEEELRAAVEVLRGHGLHSVLEEWFVEVLQNDLQANISPEFWNAISQCENSADEPQCLLLLLDAFGLLESRLDPYLRSLELLEKWTRLGLLMGTGAQGLREEVHTMLRGVLFFSTPRTFQEMIQRLYGCFLRVYMQSKRKGEGGTDPELEGEL
Human OBRGRP_v 2	5	prey95493	242	GATGGGTCCTGGCTTCACCAAGGCCTTGGGCCATGGGGTAGACCTCGGCCACATTTATGGAGACAATCTGGAGCGTCAGTATCAACTGCGGCTCTTTAAGGATGGGAAACTCAAGTACCAGGTGCTGGATGGAGAAATGTACCCGCCCTCGGTAGAAGAGGCGCCTGTGTTGATGCACTACCCCCGAGGCATCCCGCCCCAGAGCCAGATGGCTGTGGGCCAGGAGGTGTTTGGGCTGCTTCCTGGGCTCATGCTGTATGCCACGCTCTGGCTACGTGAGCACAACCGTGTGTGTGACCTGCTGAAGGCTGAGCACCCCACCTGGGGCGATGAGCAGCTTTTCCAGACGACCCGCCTCATCCTCATAGGGGAGACCATCAAGATTGTCATCGAGGAGTACGTGCAGCAGCTGAGTGGCTATTTCCTGCAGCTGAAATTTGACCCAGAGCTGCTGTTCGGTGTCCAGTTCCAATACCGCAACCGCATTGCCATGGAGTTCAACCATCTCTACCACTGGCACCC	980	MGPGFTKALGHGVDLGHIYGDNLERQYQLRLFKDGKLKYQVLDGEMYPPSVEEAPVLMHYPRGIPPQSQMAVGQEVFGLLPGLMLYATLWLREHNRVCDLLKAEHPTWGDEQLFQTTRLILIGETIKIVIEEYVQQLSGYFLQLKFDPELLFGVQFQYRNRIAMEFNHLYHWH
Human OBRGRP_v 2	5	prey98459	243	TNGAANATNGGAAGATNAGACCCACCAATTGATCCCATGTTTAAGAGGCCCTCAGATGACTCTGCATNCCCAAGGGGAGCCTCATCTCCCAGGACACATGCACTGACACTCTGCANACAGTACAGGGGATCTACTCCAAGCCCAGGGCAAGACCCCACACCCACTCCCTCTGTCCTTNGGTTCCCGTATGTGTCTTAGACTCCCTGGCCCTGCAAAGGCANNGATTGACCTGAAGTCCAGAGCCTCACATGACCACANGACCCTCATGTCTAAAGANNG	981	XXXGRXDPPIDPMFKRPSDDSAXPRGASSPRTHALTLCXQYRGSTPSPGQDPTPTPSVLXFPYVS*TPWPCKGXD*PEVQSLT*PXDPHV*RX
Human	5	prey98462	244	GTGTGTGCAAGTATGCTTGTATTTTTTAACGATAATATGGTCACATGAGCATT	982	VCASMLVFF*R*YGHMSIKFIFL

OBRGRP_v 2				AAATTTATTTTTTTAAAGTTTATAGTTACCCNACACNAGGTTNTTATTGATTNCNTGAGTTGTTNACACNTGNGTNNGTGTTTGNTTNGTNTGATTNGTGGGATGGGGGGGTTTGTTCTTTGGGGNATGNNTGGGTGGTTGGGNNTGGTGGTGGGGGTGGTTTTTNGNGGNGGGGNCGGGNGTCTNANGGGNTGNCCCCNCCGNCGGNGGGGGGTTTNNCCNGGCCCGGGGGGGGGGGGTTGTGGNCCNTCNNCNGCGNGGNCGNGCGTGNGNGNCCNGNGGCG		KFIVTXHXVXIDXXSCXHXXXCLXXXIXGMGGFVLWGMXGWLGXVVGVVFXGGXGXLXGXPXRRXGVXPGPGGGGCGPSXAXXXVXXXX
Human OBRGRP_v 2	5	prey32369	245	CAGCCTCTCGAGCAACAACTCCCTGATTGTCAAGGTGGGAGACACCAACGACAACCCGCCCATGTTCGGCCAGTCGGTGGTGGAGGTTTACTTCCCTGAGAACAACATCCCGGGCGAGAGGGTGGCCACGGTGCTGGCGACAGACGCAGACAGCGGTAAGAACGCCGAGATCGCCTACTCGCTGGACTCCTCTGTGATGGGGATCTTTGCCATCGATCCCGATTCTGGGGACATCCTGGTCAATACCGTGCTGGACCGCGAGCAGACTGACAGGTATGAGTTTAAAGTTAACGCCAAAGACAAAGGCATCCCCGTGCTGCAGGGCAGCACTACGGTGATTGTGCAGGTGGCTGATAAAAATGACAATGACCCTAAGTTTATGCAGGACGTCTTCACCTTTTATGTGAAAGAAAACTTGCAGCCCAACAGCCCTGTGGGGATGGTCACCGTGATGGATGCTGACAAGGGGCGGAATGCAGAGATGAGCCTGTACATAGAGGAGAACAATAACATTTTTTCTATTGAAAATGACACGGGGACCATTTACTCCACAATGTCTTTTGACCGGGAACATCAGACCACATACACTTTCAGAGTCAAGGCTGTGGATGGGGGAGATCCTCCCAGATCTGCCACAGCTACAGTCTCGCTTTTTGTGATGGATGAAAATGACAATGCTCCCACAGTTACCCTTCCCAAAAACATTTCCTACACTTTACTGCCACCTTCGAGTAATGTCAGGACAGTAGTAGCTACAGTGTTGGCAACAGACAGTGATGATGGCATCAATGCAGACC	983	SLSSNNSLIVKVGDTNDNPPMFGQSVVEVYFPENNIPGERVATVLATDADSGKNAEIAYSLDSSVMGIFAIDPDSGDILVNTVLDREQTDRYEFKVNAKDKGIPVLQGSTTVIVQVADKNDNDPKFMQDVFTFYVKENLQPNSPVGMVTVMDADKGRNAEMSLYIEENNNIFSIENDTGTIYSTMSFDREHQTTYTFRVKAVDGGDPPRSATATVSLFVMDENDNAPTVTLPKNISYTLLPPSSNVRTVVATVLATDSDDGINAD
Human OBRGRP_v 2	5	prey74583	246	GGCAGCTCCTCTCATGTACTTCATCTCTGCCCAAGAGGGCAGCGGCGTGGGCACAGACCTGGCCATTGACGAACACAGTGGGGTCGTCCGTACAGCCCGTGTCTTGGACCGTGAGCAGCGGGACCGCTACCGCTTCACTGCAGTCACTCCTGATGGTGCCACCGTAGAAGTTACAGTGCGAGTGGCTGACATCAACGACCATGCTCCAGCCTTCCCACAGGCTCGGGCTGCCCTGCAGGTACCTGAGCATACAGCTTTTGGCACCCGCTACCCACTGGAGCCTGCTCGTGATGCAGATGCTGGGCGTCTGGGAACCCAGGGCTATGCGCTATCTGGTGATGGGGCTGGAGAGACCTTCCGGCTGGAGACACGCCCCGGTCCAGATGGGACTCCAGTACCTGAGCTGGTAGTTACTGGGGAACTGGACCGAGAGAACCGCTCACACTATATGCTACAGCTGGAGGCCTATGATGGTGGTTCACCCCCCCGGAGGGCCCAGGCCCTGCTGGACGTGACACTGCTGGACATCAATGACCATGCCCCGGCTTTCAATCAGAGCCGCTACCATGCTGTGGTGTCTGAGAGCCTGGCCCCTGGCAGTCCTGTCTTGCAGGTGTTCGCATCTGATGCCGATGCTGGTGTCAATGGGGCTGTGACTTACGAGATCAACCGGAGGC	984	AAPLMYFISAQEGSGVGTDLAIDEHSGVVRTARVLDREQRDRYRFTAVTPDGATVEVTVRVADINDHAPAFPQARAALQVPEHTAFGTRYPLEPARDADAGRLGTQGYALSGDGAGETFRLETRPGPDGTPVPELVVTGELDRENRSHYMLQLEAYDGGSPPRRAQALLDVTLLDINDHAPAFNQSRYHAVVSESLAPGSPVLQVFASDADAGVNGAVTYEINRR
Human OBRGRP_v 2	5	prey98474	247	ATAAATCTAAGTTATTTTATTTAGTTTAAGCAAAATATGTATCCATATGAAAATGCCAGTTCTTTCATTTTTGGTTAATTCCTTTACACATATTATTTGCTAAGTTCAGAAATGCTATATATACAAAAATTTCAAAAATAAATAANTATCCCANNATCACATNACAATACTCGAGNGTACATGGNTGTGNGANNAGGGNGNAAANAGANGGNGTCTATCTTNTGNGGGGAGAGCTGGGGGCNAGGGGNGGAGGGGGAGGGGCANGGGAGG	985	INLSYFI*FKQNMYPYENASSFIFG*FLYTYYLLSSEMLYIQKFQK*IXIPXSHXNTRXYMXVXXGXKXXXSIXXGESWGXGXEGEGXGRXGXGXGEXXGAG

				NGGGGAGNGGGTGANGGGGAGGNGNTGGGNGCGGGGGN		
Human OBRGRP_v 2	5	prey98475	248	TTATGTGTCAAAGGAAGAACTAAAAGAACTTCTGAAAAAAGCAGCCAGTGGTGAAATTAAGATAACGCCATGGTTTAAAATTATTGCAGCGACTTTTCTCTTTAAATGGTGGGATAACTTAAATCATTTGAATCAGTTTGTTGACCATGAGAAAATATACAGAATGTGA	986	YVSKEELKELLKKAASGEIKITPWFKIIAATFLFKWWDNLNHLNQFVDHEKIYRM*
Human OBRGRP_v 2	5	prey98485	249	TGCCTGCCACCACACCTGGCTATTTTTTTTTTTTTTTTTTTAAANNAAACNGGATTTGANTTTTTNTTGCNNGGTTGGAATTNNGTTGNCGGGGGTTTTGGTTGGTTGGGGCCTTCTGGNCTGGGGGNCCCCCNGGNGCCTGGNGGTCGTTGNGTNCCGGGGCGGNTNTNTNGGGCGGGGGGNGGGGGGNGGGGGGNGNNNNGCNGNGNGNCTCGNTGNGGGCNNNGGGNGTNCCGNGCCGGTNNNCGTGCCCNCCCCCNGNCTGTGGTNNTCGGCGNGCCCNGGGNGGGGGGGGGNGGGCGGGNGCGGGGNGNNCGNCNNGGGGNNGGGGGNG	987	CLPPHLAIFFFFFLXXTGFXFXLXGWNXVXGGFGWLGPSGLGXPXXPGGRXVPGRXXXAGGGGXGXXXXXXRXGXXXXRAGXRAXPXXVVXGXPXXGGGGRXRGXRXGXGG
Human OBRGRP_v 2	5	hgx36	250	ATGTCGAATCTGAGCAAAGGCACGGGCAGCCGGAAGGACACCAAGATGCGGATCCGGGCCTTTCCGATGACCATGGATGAAAAATATGTAAACAGCATTTGGGACCTTCTGAAAAATGCAATTCAAGAAATCCAGCGTAAGAATAACAGTGGTCTTAGTTTTGAGGAGCTCTATAGAAATGCATATACAATGGTTTTGCATAAACATGGAGAAAAGCTCTACACTGGACTAAGAGAAGTTGTTACCGAACATCTCATAAATAAGGTGCGAGAAGATGTACTAAATTCATTGAATAACAACTTTCTTCAAACGCTAAATCAAGCTTGGAATGATCATCAAACAGCTATGGTGATGATTAGAGACATACTAATGTACATGGACCGTGTGTATGTACAACAAAATAATGTGGAGAACGTCTACAATTTGGGATTAATTATTTTTCGAGATCAAGTTGTACGTTATGGGTGTATTAGGGATCATCTACGGCAAACTCTATTGGATATGATTGCAAGAGAGCGGAAAGGAGAAGTCGTAGACAGAGGCGCAATAAGAAATGCTTGCCAGATGTTAATGATTTTAGGTCTCGAAGGAAGATCAGTCTATGAAGAAGATTTTGAGGCTCCTTTTTTGGAAATGTCTGCAGAATTTTTTCAGATGGAAAGCCAGAA	988	MSNLSKGTGSRKDTKMRIRAFPMTMDEKYVNSIWDLLKNAIQEIQRKNNSGLSFEELYRNAYTMVLHKHGEKLYTGLREVVTEHLINKVREDVLNSLNNNFLQTLNQAWNDHQTAMVMIRDILMYMDRVYVQQNNVENVYNLGLIIFRDQVVRYGCIRDHLRQTLLDMIARERKGEVVDRGAIRNACQMLMILGLEGRSVYEEDFEAPFLEMSAEFFQMESQ
Human OBRGRP_v 2	5	prey700	251	ATGGGAATTGGTCTTTCTGCTCAAGGTGTGAACATGAATAGACTACCAGGTTGGGATAAGCATTCATATGGTTACCATGGGGATGATGGACATTCGTTTTGTTCTTCTGGAACTGGACAACCTTATGGACCAACTTTCACTACTGGTGATGTCATTGGCTGTTGTGTTAATCTTATCAACAATACCTGCTTTTACACCAAGAATGGACATAGTTTAGGTATTGCTTTCACTGACCTACCGCCAAATTTGTATCCTACTGTGGGGCTTCAAACACCAGGAGAAGTGGTCGATGCCAATTTTGGGCAACATCCTTTCGTGTTTGATATAGAAGACTATATGCGGGAGTGGAGAACCAAAATCCAGGCACAGATAGATCGATTTCCTATCGGAGATCGAGAAGGAGAATGGCAGACCATGATACAAAAAATGGTTTCATCTTATTTAGTCCACCATGGGTACTGTGCCACAGCAGAGGCCTTTGCCAGATCTACAGACCAG	989	MGIGLSAQGVNMNRLPGWDKHSYGYHGDDGHSFCSSGTGQPYGPTFTTGDVIGCCVNLINNTCFYTKNGHSLGIAFTDLPPNLYPTVGLQTPGEVVDANFGQHPFVFDIEDYMREWRTKIQAQIDRFPIGDREGEWQTMIQKMVSSYLVHHGYCATAEAFARSTDQ
Human OBRGRP_v 2	5	prey19864	252	CTCCTGCCACATATTTGAACTGTACCAGGAAGATTCTGGGAATTTCTCAGTGGAGATGTACTTTCGGAACGAGAGTGACAAGGCCCCCTGGCCGCTCAGCCTGCCTGGCTGCCCTCACCGCTGCCCACTGCAGGACTTCCTTCGCCTCACAGAGCCCGTCGT	990	SCHIFELYQEDSGNFSVEMYFRNESDKAPWPLSLPGCPHRCPLQDFLRLTEPVVPKDWQQECQLASGPA

				GCCCAAGGATTGGCAGCAGGAGTGCCAGCTGGCAAGCGGTCCTGCAGACACAGAGGTGATTGTGGCCTTGGCTGTATGTGGCTCCATCCTCTTCCTCCTCATAGTGCTGCTCCTCACCGTCCTCTTCCGGATGCAGGCCCAGCCTCCTGGCTACCGCCACGTCGCAGATGGGGAGGACCACGCCTGA		DTEVIVALAVCGSILFLLIVLLLTVLFRMQAQPPGYRHVADGEDHA*
Human OBRGRP_v2	5	prey1499	253	CAAGCTGGACACACGGCTCCTCTACCCTGTGTCCAAATACCAGCAGGACCAGATTGTCAAGGAGGACAGCGTGGAGGCAGTGGGCGCCCAGCTTAAGGTCTATCACCAGCAGTACCAGGACAAGAGCCGCGAGTATGACCAGCTTTATGAAGAGTACACACGGACCTCCCAGGAGCTGCAGATGAAGCGTACTGCAATTGAGGCCTTCAATGAGACTATCAAGATCTTTGAAGAGCAGGGCCAGACTCAAGAGAAATGCAGCAAGGAATACCTGGAGCGCTTCCGGCGTGAGGGCAACGAGAAAGAGATGCAAAGGATCCTGCTGAACTCCGAGCGGCTCAAGTCCCGCATTGCCGAGATCCATGAGAGCCGCACGAAGCTGGAGCAGCAGCTGCGGGCCCAGGCCTCGGACAACAGAGAGATCGACAAGCGCATGAACAGCCTCAAGCCGG	991	KLDTRLLYPVSKYQQDQIVKEDSVEAVGAQLKVYHQQYQDKSREYDQLYEEYTRTSQELQMKRTAIEAFNETIKIFEEQGQTQEKCSKEYLERFRREGNEKEMQRILLNSERLKSRIAEIHESRTKLEQQLRAQASDNREIDKRMNSLKP
Human OBRGRP_v2	5	prey10497	254	GTCCTTCACAAAAGCCAGTGAGCTGAACCCAGAATCCATATACAGTGTGTTTAAGGTTGCAGCAATACAGCAAATCCTAGGCAAATATAAGGAGGCTGTAGCTCAATACCAGATGATCATTAAAAAGAAAGAAGATTATGTGCCTGCTTTAAAAGGTTTGGGTGAATGCCATCTTATGATGGCAAAAGCAGCTCTAGTTGATTATCTTGATGGAAAAGCCGTAGACTACATAGAAAAAGCACTGGAATATTTTACTTGTGCTCTACAGCATCGAGCTGATGTGTCCTGCCTCTGGAAGCTAGCTGGGGATGCTTGTACCTGTCTGTATGCTGTCGCACCATCTAAAGTGAATGTTCATGTTTTAGGAGTCCTTCTAGGTCAGAAAGAAGGAAAACAAGTATTAAAGAAAAATGAGCTCCTCCACCTTGGAGGAAGGTGTTATGGTCGTGCATTAAAACTGATGTCTACATCTAATACATGGTGTGACCTTGGAATTAATTATTATCGCCAAGCACAACATCTAGCAGAAACAGGCAGCAACATGAATGATCTTAAGGAGTTGCTGGAGAAATCTTTACATTGTCTGAAAAAAGCAGTGAGACTCGACAGTAATAATCACTTATACTGGAATGCTCTTGGTGTGGTTGCATGTTACAGTGGTATTGGAAATTATGCCCTTGCTCAGCACTGTTTCATCAAATCAATCCAGTCAGAACAAATTAATGCTGTTGCATGGACCAACTTGGGAGTGTTATACCTCACAAATGAAAACATTGAGCAAGCTCATGAGGCTTTCAAAATGGCTCAATCCCTTGATCCATCTTATTTAATGTGCTGGATTGGACAAGCTCTTATTGCTGAGGCAGTTGGAAGTTATGACACCATGGATCTCTTCAGGC	992	SFTKASELNPESIYSVFKVAAIQQILGKYKEAVAQYQMIIKKKEDYVPALKGLGECHLMMAKAALVDYLDGKAVDYIEKALEYFTCALQHRADVSCLWKLAGDACTCLYAVAPSKVNVHVLGVLLGQKEGKQVLKKNELLHLGGRCYGRALKLMSTSNTWCDLGINYYRQAQHLAETGSNMNDLKELLEKSLHCLKKAVRLDSNNHLYWNALGVVACYSGIGNYALAQHCFIKSIQSEQINAVAWTNLGVLYLTNENIEQAHEAFKMAQSLDPSYLMCWIGQALIAEAVGSYDTMDLFR
Human OBRGRP_v2	5	prey98502	255	ATGGCAGATGCTTTCAGAATTGCATTTGAGCAACAATTAATGAGAAAAAATGACCAGGCACTACAATTGACACAAATGGATAAAATGCATAAAAAAGCAACAAAATGGATGAATTGGAAGCACCTTAAAGAGGATGGATTTCCATCACCAAGGAGTAAGAAGACCTTCGGGCAGAGACTGTTGGGTATGCTCCCTTCAGAAAACAGTTCTAAGAGGATGGAAGACCAGGACAGTCCTCAAGAGGTCCTTAAGATGCTCATAGATTTGCTTAATGATAAAGAAGAAGCTTTGGCTCATCAAAGAAAAGTTAGCTACATGCTTGCTCGGGCATTGGAAGACAAAGACACTGCTTCAAACGAGAATAAAGAAAAAAATCCTATAAAAGAGAATTTCCCTTTCAACAACCCCTGGCGCTGGCGCACAGATATCTTAAATGGCTACTAA	993	MADAFRIAFEQQLMRKNDQALQLTQMDKMHKKATKWMNWKHLKEDGFPSPRSKKTFGQRLLGMLPSENSSKRMEDQDSPQEVLKMLIDLLNDKEEALAHQRKVSYMLARALEDKDTASNENKEKNPIKENFPFNNPWRWRTDILNGY*

Human OBRGRP_v 2	5	prey86133	256	ATGAGCGCCCCCAGCGCGACCCCCATCTTCGCGCCCGGCGAGAACTGCAGCCCC GCGTGGGGGGCGGCGCCCGCGGCCTACGACGCAGCGGACACGCACCTGCGCATC CTGGGCAAGCCGGTGATGGAGCGCTGGGAGACCCCCTATATGCACGCGCTGGCC GCCGCCGCCTCCTCCAAAGGGGGCCGGGTCCTGGAGGTGGGCTTTGGCATGGCC ATCGCAGCGTCAAAGGTGCAGGAGGCGCCCATTGATGAGCATTGGATCATCGAG TGCAATGACGGCGTCTTCCAGCGGCTCCGGGACTGGGCCCCACGGCAGACACAC AAGGTCATCCCCTTGAAAGGCCTGTGGGAGGATGTGGCACCCACCCTGCCTGAC GGTCACTTTGATGGGATCCTGTACGACACGTACCCACTCTCGGAGGAGACCTGG CACACACACCAGTTCAACTTCATCAAGAACCACGCCTTTCGCCTGCTGAAGCCG GGGGGCGTCCTCACCTACTGCAACCTCACCTCCTGGGGGGAGCTGATGAAGTCC AAGTACTCAGACATCACCATCATGTTTGAGGAGACGCAGGTGCCCGCGCTGCTG GAGGCCGGCTTCCGGAGGGAGAACATCCGTACGGAGGTGATGGCGCTGGTCCCA CCGGCCGACTGCCGCTACTACGCCTTCCCACAGATGATCACGCC	994	MSAPSATPIFAPGENCSPAWGAA PAAYDAADTHLRILGKPVMERWE TPYMHALAAAASSKGGRVLEVGF GMAIAASKVQEAPIDEHWIIECN DGVFQRLRDWAPRQTHKVIPLKG LWEDVAPTLPDGHFDGILYDTYP LSEETWHTHQFNFIKNHAFRLLK PGGVLTYCNLTSWGELMKSKYSD ITIMFEETQVPALLEAGFRRENI RTEVMALVPPADCRYYAFPQMIT
Human OBRGRP_v 2	5	prey98503	257	ATGGTTGACCTCACCCAGGTAATGGATGATGAAGTATTCATGGCTTTTGCATCC TATGCAACAATTATTCTTTCAAAAATGATGCTTATGAGTACTGCAACTGCATTC TATAGATTGACAAGAAAGGTTTTTGCCAATCCAGAAGACTGTGTAGCATTTGGC AAAGGAGAAAATGCCAAGAAGTATCTTCGAACAGATGACAGAGTAGAACGTGTA CGCAGAGCCCACCTGAATGACCTTGAAAATATTATTCCATTTCTTGGAATTGGC CTCCTGTATTCCTTGAGTGGTCCCGACCCCTCTACAGCCATCCTGCACTTCAGA CTATTTGTCGGAGCACGGATCTACCACACCATTGCATATTTGACACCCCTTCCC CAGCCAAATAGAGCTTTGAGTTTTTTTGTTGGATATGGAGTTACTCTTTCCATG GCTTACAGGTTGCTGAAAAGTAAATTGTACCTGTAA	995	MVDLTQVMDDEVFMAFASYATII LSKMMLMSTATAFYRLTRKVFAN PEDCVAFGKGENAKKYLRTDDRV ERVRRAHLNDLENIIPFLGIGLL YSLSGPDPSTAILHFRLFVGARI YHTIAYLTPLPQPNRALSFFVGY GVTLSMAYRLLKSKLYL*
Human OBRGRP_v 2	5	prey16048	258	GCAAGTGTATAATCTCACTGTGAGGGCCAAAGACAAGGGAAAGCCAGTTTCTCT GTCTTCTACTTGCTATGTTGAAGTTGAGGTGGTTGATGTGAATGAGAACCTGCA CCCACCCGTGTTTTCCAGCTTTGTGGAAAAGGGGACAGTGAAAGAAGATGCACC TGTTGGTTCATTGGTAATGACGGTGTCGGCTCATGATGAGGACGCCGGAAGAGA TGGGGAGATCCGATACTCCATTAGAGATGGCTCTGGCGTTGGTGTTTTCAAAAT AGGTGAAGAGACAGGTGTCATAGAGACGTCAGATCGACTGGACCGTGAATCGAC CTCCCATTATTGGCTAACAGTCTTTGCAACCGATCAGGGTGTCGTGCCTCTTTC ATCGTTCATAGAGATCTACATAGAGGTTGAGGATGTCAATGACAATGCACCACA GACATCAGAGCCTGTTTATTACCCAGAAATCATGGAAAATTCTCCTAAAGATGT ATCTGTGGTCCAGATCGAGGCATTTGATCCAGATTCGAGCTCTAATGACAAGCT CATGTACAAAATTACAAGTGGAAATCCACAAGGATTCTTTTCAATACATCCTAA AACAGGTCTCATCACAACTACGTCAAGGAAGCTAGACCGAGAACAGCAAGATGA ACACATATTAGAGGTTACTGTGACAGACAATGGTAGTCCCCCCAAATCAACCAT TGCAAGAGTCATTGTGAAAATCCTTGATGAAAATGACAACAAACCTCAGTTTCT GCAAAAGTTCTACAAAATCAGACTCCCTGAGCGGGAAAAGCCA	996	QVYNLTVRAKDKGKPVSLSSTCY VEVEVVDVNENLHPPVFSSFVEK GTVKEDAPVGSLVMTVSAHDEDA GRDGEIRYSIRDGSGVGVFKIGE ETGVIETSDRLDRESTSHYWLTV FATDQGVVPLSSFIEIYIEVEDV NDNAPQTSEPVYYPEIMENSPKD VSVVQIEAFDPDSSSNDKLMYKI TSGNPQGFFSIHPKTGLITTTSR KLDREQQDEHILEVTVTDNGSPP KSTIARVIVKILDENDNKPQFLQ KFYKIRLPEREKP
Human OBRGRP_v	5	prey98509	259	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNAGGGAG AGCTTTTTCTTTAATTTTTTTTAAGCTGCTGAGTTTGTGTTAAGCAAGGATCC	997	XXXXXXXXXXXXXXXXRESFFFN FFLSC*VCVKQGS*CHFQSVLNQ

2				TAATGTCATTTCCAATCAGTATTAAATCAAATAATATATGTAAAATATTTGCATAATTATTGGGAATTATTTGGGTAAATGTACAAAAAAGCTANGCTNTTNTTTGCTGGAACTATTAGGGAACAGTTGTTTCNAACAGGGTANCACCAGGTNNCAATTAGAGGGGCNTTGTTCAATCCAAAAACNANNATTAAACTTGCCGC		IIYVKYLHNYWELFG*MYKKAXLXFAGTIREQLFXTGXHQVXIRGALFNPKTXIKLA
Human OBRGRP_v 2	5	prey98510	260	CCACATCAGAGCCTCGAAGGTCCTCCGTGGCTTTTCCCTGGCCCTTTGCCATCCGTTGCCTCTGAGGACTTATTTCCTTTTCCTATACATGGCCACAGTGGTGGTTATCCTAGAAAAAAGATTTCAAGTCTGAACCCTGCTTATATCCAATGCTCNCAAAAAAGTATTGAACAGGCAGAAGANGCTCACAANGAAAGNGCACNAACNCAGTNAGCNTGNCGNGTGCNTNCGCNCTTGCTGGNGGNGGNAGAGGGGGNNGGGNGTGGGGGNGCTGGGGGNGCGCGTGGGGGGGGG	998	PHQSLEGPPWLFPGPLPSVASEDLFPFPIHGHSGGYPRKKISSLNPAYIQCSQKSIEQAEXAHXEXAXTQXAXRVXXXLLXXXEGXGXGGAGGARGGG
Human OBRGRP_v 2	5	prey98513	261	TCTTATTTTCTAACCAACCCAACTGCATTTTGGAAAATTTTCTTTTAGACCATAATGAGTATGTTTACACACATACAGCCCATAAACATACATTCATATATATATATTTTAAAGAAATTATTTGACAGTGATTATGGTCCATTTGTGTGAGTAGCTGAAATGATGAGTACATAAACACAAGTCCTTTCCACATCATGTACTCATTAAGTTTGAAGAACGAGTTAAAGTTACCAAGATTTCTTTATTNAGGNTTTGTTTNGNGTGCTGGAACNGAAGTNTTTGCTGGGCAACNGA	999	SYFLTNPTAFWKIFF*TIMSMFTHIQPINIHSYIYILKKLFDSDYGPFV*VAEMMST*TQVLSTSCTH*V*RTS*SYQDFFIXXLFXVLEXKXLLGNX
Human OBRGRP_v 2	5	prey5548	262	GGCAGCCTGGGCCATCACCAATGCCACATCAGGAGGAACCCCTGAGCAGATCAGGTACCTGGTCTCACTGGGCTGCATCAAACCCCTATGTGACTTGCTGACTGTAATGGATTCGAAGATTGTGCAAGTGGCCCTCAATGGACTGGAGAACATCCTGCGGCTTGGAGAGCAAGAGGGCAAGCGCAGTGGCTCAGGGGTCAATCCTTATTGTGGCCTCATAGAGGAAGCCTATGGCTTGGATAAAATTGAGTTTCTCCAGAGCCACGAGAACCAGGAGATCTACCAGAAGGCCTTCGACCTCATTGAGCACTACTTTGGTGTAGAAGACGATGATAGCAGCCTGGCTCCCCAAGTCGATGAAACGCAACAGCAGTTCATCTTCCAGCAGCCTGAGGCCCCCATGGAGGGCTTCCAGCTATAA	1000	AAWAITNATSGGTPEQIRYLVSLGCIKPLCDLLTVMDSKIVQVALNGLENILRLGEQEGKRSGSGVNPYCGLIEEAYGLDKIEFLQSHENQEIYQKAFDLIEHYFGVEDDDSSLAPQVDETQQQFIFQQPEAPMEGFQL*
Human OBRGRP_v 2	5	prey98514	263	GGTGGAGGGAGGGCGGGTTTANGGAGGAACATAAGANGGGGCACCGGGATNGANGCAAATCCNANACATTTACAACTTTTTTGGGTGCCCCAGGACANTGGGATTCTCCCCACCTGCTGCCGNATCCACAACCCCCNNTAATGTTTTTTCNTCAANTGAACCTGCTTTCTTGTTTTTTTTTTTAAATGGANTNNTTNNTTTTNTCGCCCCATGGNTTNTACTNNNCNTGTCCCTCTTTNNCTNGTTTNCNCTTNCGNNNTTNCCNCNTTNTTTTTGTTTCNCTTTTTCNTCT	1001	GGGRAGLXRNIRXGTGXXANPXHLQLFWVPQDXGILPTCCRIHNPX*CFFXX*TCFLVFFFKWXXXFXRPMXXTXXVPLXLVXXXXXXXXFLFXFFX
Human OBRGRP_v 2	5	prey98516	264	TTTTCCCAGTTTTACCCAAAAGATCCCTGTCTGTGTGGATGCCAGATGAAGACTAGTCCATACTTTGTATGTTTCTTTCTGTAACTCCATTCACTNCTGAAATCATGGNAGTGTTTTTCCACCTATAATATTNTTGNTTGTNGATTTTTTAGNTTTTTATNCATTACTACGATTTTGNAGNTTTTTGGTGGNTNTCGTTATTAANGCTGNNGGGNAGTGAGGTGGGGNGTGTGNTGGGGGNGGGTNTGNGGGNGGGGGNNGGGTGTNGGGGGGGGGGGG	1002	FSQFYPKDPCLCGCQMKTSPYFVCFFL*LHSLLKSWXCFSTYNIXXCXFFXFLXITTILXXFGGXRY*XXXXVRWGVXWGXVXGXGXGVGGGG
Human OBRGRP_v	5	prey72650	265	ATGGAAGGATCCGAGCCTGTGGCCGCCCATCAGGGGGAAGAGGCGTCCTGTTCTTCCTGGGGGACTGGCAGCACAAATAAAAATTTGCCCATTATGTCAACAGCATCT	1003	MEGSEPVAAHQGEEASCSSWGTGSTNKNLPIMSTASVEIDDALYSR

2				GTGGAAATCGATGATGCATTGTATAGTCGACAGAGGTACGTTCTTGGAGACACAGCAATGCAGAAGATGGCCAAGTCCCATGTTTTCTTAAGTGGGATGGGTGGTCTTGGTTTGGAAATTGCAAAGAATCTTGTTCTTGCAGGGATTAAGGCAGTTACAATTCATGATACAGAAAAATGCCAAGCATGGGATCTAGGAACCAACTTCTTTCTCAGTGAAGATGATGTTGTTAATAAGAGAAACAGGGCTGAAGCTGTACTTAAACATATTGCAGAACTAAATCCATACGTTCATGTCACATCATCTTCTGTTCCTTTCAATGAGACCACAGATCTCTCCTTTTTAGATAAATACCAGTGTGTAGTATTGACTGAGATGAAACTTCCATTGCAGAAGAAGATCAATGACTTTTGCCGTTCTCAGTGCCCTCCAATTAAGTTTATCAGTGCAGATGTACATGGAATTTGGTCAAGGTTATTTTGTGATTTCGGTGATGAATTTGAAGTTTTAGATACAACAGGAGAAGAACCAAAAGAAATTTTCATTTCAAACATAACGCAAGCAAATCCTGGCATTGTTACTTGCCTTGAAAATCATCCTCACAAACTGGAGACAGGACAATTCCTAACATTTCGAGAAATTAATGGAATGACAGGTTTAAATGGATCTATACAACAAATAACGGTGATATCGCCATTTTCTTTTAGTATTGGTGACACCACAGAACTGGAACCATATTTACATGGAGGCA		QRYVLGDTAMQKMAKSHVFLSGMGGLGLEIAKNLVLAGIKAVTIHDTEKCQAWDLGTNFFLSEDDVVNKRNRAEAVLKHIAELNPYVHVTSSSVPFNETTDLSFLDKYQCVVLTEMKLPLQKKINDFCRSQCPPIKFISADVHGIWSRLFCDFGDEFEVLDTTGEEPKEIFISNITQANPGIVTCLENHPHKLETGQFLTFREINGMTGLNGSIQQITVISPFSFSIGDTTELEPYLHGG
Human OBRGRP_v 2	5	prey98526	266	CTTGACTCTGGCAGGTATAACATATCTTCCCCAGTGGCTGCAGACTCCATCAGTTCTAGGGGCCTGCTGGATAGACTGGTATGGTGAATGAGGGGAGGGAAGGAGTTTTTTGGATTCACTACAGGAGTTTGAAAGTGCANGTNTTATGTTNACTNTGGGAAATTNTANGGGATGGTGTGTGGTATGGGGGTAGGANGGNNGTGGCGGGTNGCGGGGNGGGGCGCGGCGTGGGGGNGGGNNCGCCCGGCNGGGTNTTNCCGNCCCCGGTCGGGGGGNNGNNNCNNGNNCNGGCGGCNCNCNGGGGCNGG	1004	LDSGRYNISSPVAADSISSRGLLDRLVW*MRGGKEFFGFTTGV*KCXXYVXXGKXXGMVCGMGVGXXWRVAGXGAAWGXXRPAGXXRPRSGGXXXXXRXXGA
Human OBRGRP_v 2	5	hgx408	267	ACCAGATGGGGCCAAATGGGATGATGACTGTAATACCTGCCAGTGCCTGAATGGACGGATCGCCTGCTCAAAGGTCTGGTGTGGCCCTCGACCTTGCCTGCTCCACAAAGGGCACAGCGAGTGCCCCAGCGGGCAGAGCTGCATCCCCATCCTGGACGACCAGTGCTTCGTCCACCCCTGCACTGGTGTGGGCGAGTGTCGGTCTTCCAGTCTCCAGCCGGTGAAGACAAAGTGCACCTCTGACTCCTATTACCAGGATAACTGTGCGAACATCACATTTACCTTTAACAAGGAGATGATGTCACCAGGTCTTACTACGGAGCACATTTGCAGTGAATTGAGGAATTTGAATATTTTGAAGAATGTTTCCGCTGAATATTCAATCTACATCGCTTGCGAGCCTTCCCCTTCAGCGAACAATGAAATACATGTG	1005	PDGAKWDDDCNTCQCLNGRIACSKVWCGPRPCLLHKGHSECPSGQSCIPILDDQCFVHPCTGVGECRSSSLQPVKTKCTSDSYYQDNCANITFTFNKEMMSPGLTTEHICSELRNLNILKNVSAEYSIYIACEPSPSANNEIHV
Human OBRGRP_v 2	5	prey67327	268	CCAGGATGAAGCGTATGATGCAGCTCAATTCCTAGCAACCAGTGCTGGAAATCAGCAGGCTTTGAACTTTACCCGTTTTCTTGACCAGTCAGGACCCCCATCTGGGGATGTGAATTCCCTTGATAAGAAGTTGGTGCTGGCATTCAGGCACCTGAAGCTGCCCACGGAGTGGAATGTATTGGGGACAGATCAGAGTTTGCATGATGCTGGCCCGCGAGAGACATTGATGCATTTTGCTGTGCGGCTGGGACTGCTGAGGTTGACGTGGTTCCTGTTGCAGAAGCCAGGTGGCCGCAGAGCTCTCAGTATCCACAACCAGGAAGGGGCGACGCCTGTGAGCTTGGCCTTGGAGCGAGGCTATCACAAGCTGCACCAGCTTCTAACCGAGGAGAATGCTGGAGAACCAGACTCCTGGAGCAGTTTATCCTATGAAATACCGTATGGAGACTGTTCTGTGAGGCATCATCGAGAGTTGGACATCTATACATTAACCTCTGAGTCTGATTCACATCATGAACACCCATTTCCTGGAGACGGTTG	1006	QDEAYDAAQFLATSAGNQQALNFTRFLDQSGPPSGDVNSLDKKLVLAFRHLKLPTEWNVLGTDQSLHDAGPRETLMHFAVRLGLLRLTWFLLQKPGGRRALSIHNQEGATPVSLALERGYHKLHQLLTEENAGEPDSWSSLSYEIPYGDCSVRHHRELDIYTLTSESDSHHEHPFPGDGCTGPIFKLMNIQ

				CACTGGACCAATTTTTAAACTTATGAACATCCAAC		
Human OBRGRP_v 2	5	prey36832	269	ATGGACCCCCGCAAAGTGAACGAGCTTCGGGCCTTTGTGAAAATGTGTAAGCAGGATCCGAGCGTTCTGTACACCGAGGAAATGCGCTTCCTGAGGGAGTGGGTGGAGAGCATAGGTGGTAAAGTACCACCTGCTACTCAGAAAGCTATATCAGAAGAAAATACCAAGGAAGAAAAACCTGATAGTAAGAAGGTGGAGGAAGACTTAAAGGCAGACGAACCATCAAGTGAGGAAAGTGATCTAGAAATTGATAAAGAAGGTGTGATTGAACCAGACACTGATGCTCCTCAAGAAATGGGAGATGAAAATGCGGAGATAACGGAGGAGATGATGGATCAGGCAAATGATAAAAAAGTGGCTGCTATTGAAGCCCTAAATGATGGTGAACTCCAGAAAGCCATTGACTTATTCACAGATGCCATCAAGCTGAATCCTCGCTTGGCCATTTTGTATGCCAAGAGGGCCAGTGTCTTCGTCAAATTACAGAAGCCAAATGCTGCCATCCGAG	1007	MDPRKVNELRAFVKMCKQDPSVLYTEEMRFLREWVESIGGKVPPATQKAISEENTKEEKPDSKKVEEDLKADEPSSEESDLEIDKEGVIEPDTDAPQEMGDENAEITEEMMDQANDKKVAAIEALNDGELQKAIDLFTDAIKLNPRLAILYAKRASVFVKLQKPNAAIR
Human OBRGRP_v 2	5	prey67578	270	ATGGCGGTGGAGACTCTGTCCCCGGACTGGGAGTTTGACCGCGTTGACGACGGCTCGCAGAAAATTCATGCCGAAGTCCAACTTAAGAATTATGGGAAATTTCTTGAGGAGTATACCTCTCAACTGAGAAGAATTGAGGACGCTCTGGATGACTCAATTGGAGATGTTTGGGATTTCAATCTTGATCCTATAGCATTAAAGCTTTTGCCTTATGAACAGTCCTCTCTTTTGGAACTCATAAAGACTGAAAACAAGGTCTTAAACAAAGTCATCACTGTTTATGCTGCACTTTGTTGTGAAATCAAGAAATTAAAATATGAGGCTGAAACTAAATTTTACAATGGTCTCTTGTTTTATGGAGAAGGAGCTACAGATGCCAGCATGGTGGAAGGTGATTGCCAAATTCAAATGGGGAGATTTATTTCATTCTTACAGGAACTGTCTTGCTTTGTTACGAGGTGCTATGAAGTGGTGATGAACGTAGTCCACCAGTTGGCTGCCCTCTATATCAGTAACAAGATTGCACCCAAAATTATAGAGACAACTGGAGTTCATTTTCAGACTATGTATGAGCACTTGGGAGAACTGCTAACAGTTTTGCTCACCCTGGATGAAATTATTGATAATCATATCACACTGAAAGACCACTGGACTATGTACAAAAGGTTACTGAAATCTGTCCATCACAATCCTTCAAAATTTGGAATTCAGGAAGAAAAATTAAAGCCATTTGAAAAGTTCTTGCTGAAGCTAGAAGGGCAATTACTGGATGGAATGATATTCCAGGCCTGTATAGAACAACAATTTGATTCTCTCAATGGAGGAGTATCTGTGTCAAAAAAATAGTACTTTTGCTGAGGAATTTGCAC	1008	MAVETLSPDWEFDRVDDGSQKIHAEVQLKNYGKFLEEYTSQLRRIEDALDDSIGDVWDFNLDPIALKLLPYEQSSLLELIKTENKVLNKVITVYAALCCEIKKLKYEAETKFYNGLLFYGEGATDASMVEGDCQIQMGRFISFLQELSCFVTRCYEVVMNVVHQLAALYISNKIAPKIIETTGVHFQTMYEHLGELLTVLLTLDEIIDNHITLKDHWTMYKRLLKSVHHNPSKFGIQEEKLKPFEKFLLKLEGQLLDGMIFQACIEQQFDSLNGGVSVSKNSTFAEEFA
Human OBRGRP_v 2	5	prey98532	271	CCCTCCCGCCTCAGCTACCCAAGTAGTTTGCTTTGTTTTTTTAATCTAAAAGCAAAGGTGTGAGCTTGATAAAGAAGTCTTGTGGTGAAGCAAAATGAAAAAATCTCAACCTTGAAAGCATTTAAATTATCTGAAGCAATTCTATAGCAAGTCTTTATAATTCCTCTACAAATCATGTAAAAAATTGATAAGACATGGCAGTATTTGCCCTCAAAAGCCTCTGTCACCACANAAACATCACCAGNCTTATTTGCTTAACCCAAAGGCCAGGATAAATCCAAAACTGGACCGAGGTCCATGACACTGGCCTCTGACCACTATGCCCAAAGCTCCACAGACACCTTCTTGGGGTTTAAACAGAGACTTCTGTCCCCTACAAAATGAACAGACTCCAAAGGACGGCCATGGAATACTGTCCCTGTCCCTTCACTAGAGAAAGTATCTATTATAAAATGTGAGTGTTGCAACCCCAGAGTCAGTCATAAGGGC	1009	PSRLSYPSSLLCFF*SKSKGVSLIKKSCGEAK*KNLNLESI*II*SNSIASLYNSSTNHVKN**DMAVFALKSLCHHXNITXLICLTQRPG*IQNWTEVHDTGL*PLCPKLHRHLLGVLNRDFCPLQNEQTPKDGHGILSLSLH*RKYLL*NVSVATPESVIR
Human	5	prey12645	272	GATGTCTTACCTCAAACAACCCCCATACGGCATGAACGGGCTGGCCTGGCCGG	1010	MSYLKQPPYGMNGLGLAGPAMDL

OBRGRP_v 2				GCCCGCCATGGACCTCCTGCACCCATCCGTGGGCTATCCGGCCACTCCGCGGAAGCAGCGGCGGGAGCGCACCACCTTCACGCGTTCACAGCTGGACGTGCTCGAGGCGCTCTTCGCCAAGACTCGCTACCCTGACATCTTCATGCGGGAGGAGGTGGCGCTCAAGATCAACCTGCCGGAGTCTAGAGTCCAGGTCTGGTTCAAGAACCGCCGCGCCAAATGCCGCCAGCAGCAGCAGAGCGGGAGCGGAACCAAGAGCCGCCCAGCCAAGAAGAAGTCCTCTCCAGTGCGGGAGAGCTCGGGCTCCGAAAGCAGTGGCCAATTCACGCCGCCAGCTGTGTCCAGCTCTGCCTCGTCCTCTAGCTCGGCGTCCAGCTCTTCCGCCAACCCAGCGGCTGCAGCGGCTGCGGGACTAGGTGGGAACCCGGTGGCGGCCGCGTCGTCGCTGAGTACACCAGCTGCCTCATCTATCTGGAGCCCGGCCTCCATCTCGCCAGGCTCAGCGCCCGCGTCCGTGTCGGTGCCGGAGCCATTGGCCGCGCCTAGCAACACCTCGTGTATGCAGCGCTCCGTAGCTGCAGGCGCCGCCACCGCAGCAGCCTCTTATCCCATGTCCTACGGCCAGGGCGGCAGCTACGGCCAAGGCTACCCTACGCCCTCCTCTTCCTACTTTGGCGGCGTGGACTGCAGCTCATACCTAGCGCCCATGCAC		LHPSVGYPATPRKQRRERTTFTRSQLDVLEALFAKTRYPDIFMREEVALKINLPESRVQVWFKNRRAKCRQQQQSGSGTKSRPAKKKSSPVRESSGSESSGQFTPPAVSSSASSSSASSSSANPAAAAAAGLGGNPVAAASSLSTPAASSIWSPASISPGSAPASVSVPEPLAAPSNTSCMQRSVAAGAATAAASYPMSYGQGGSYGQGYPTPSSSYFGGVDCSSYLAPMH
Human OBRGRP_v 2	5	prey32510	273	AAATGAAGACACCCAAGGAAATGTGAGCCAGCTCCAAGCTGAAGTGAAGAGGCTCAAAGAACAACTGGCGGAGCTTGCTTCAGGACAGACACCACCAGAAAGCTTCCTGACCAGAGACAAAAAGAAGACTAACTATATGGAGTATTTCCAGGAAGCAATGTTATTCTTTAAGAAATCTGAACAGGAAAAGAAGTCTCTGATAGAAAAAGTTACCCAATTAGAAGACCTCACCCTCAAAAAGGAAAAATTTATTCAATCTAATAAAATGATTGTGAAATTCCGAGAGGATCAAATAATACGCTTGGAAAAGCTCCACAAGGAATCCCGGGGAGGTTTTCTGCCTGAGGAGCAGGATCGTTTGCTCTCAGAATTAAGGAATGAGATTCAAACTCTGCGAGAACAAATAGAGCACCAC	1011	NEDTQGNVSQLQAEVKRLKEQLAELASGQTPPESFLTRDKKKTNYMEYFQEAMLFFKKSEQEKKSLIEKVTQLEDLTLKKEKFIQSNKMIVKFREDQIIRLEKLHKESRGGFLPEEQDRLLSELRNEIQTLREQIEHH
Human OBRGRP_v 2	5	prey33172	274	TTCTACACAGTCGCCCCCCATGCCAATCTATAATTCAACTCATGTTGCCTCTGTTGTTAATCAAAGCGTAGAGCAAATGTGCAATCTTCTTCTGAAAGATCAGAAGCCAAAAAAACAAGGAAAATATATTTGTGAGTATTGCAATAGAGCATGTGCAAAGCCTAGTGTGCTTTTAAAGCATATCCGCTCCCACACTGGAGAGCGACCCTATCCCTGTGTGACTTGTGGATTTTCATTTAAGACTAAAAGTAATCTGTATAAGCACAAGAAATCCCACGCACATACTATCAAACTGGGTCTTGTCTTGCAACCAGATGCTGGTGGCTTGTTCTTGTCCCACGAGTCCCCCAAAGCACTTAGTATTCATTCAGACGTAGAAGACAGTGGGGAGAGCGAGGAGGAAGGCGCCACTGATGAGAGACAGCATGACCTGGGCGCCATGGAGCTGCAGAATGTGCACATAATAAAGAGGATGTCAAATGCTGAAACTTTACTAAAATCAAGCTTCACTCCAAGCAGTCCAGAAAATGTGATAGGTGACTT	1012	STQSPPMPIYNSTHVASVVNQSVEQMCNLLLKDQKPKKQGKYICEYCNRACAKPSVLLKHIRSHTGERPYPCVTCGFSFKTKSNLYKHKKSHAHTIKLGLVLQPDAGGLFLSHESPKALSIHSDVEDSGESEEEGATDERQHDLGAMELQNVHIIKRMSNAETLLKSSFTPSSPENVIGD
Human OBRGRP_v 2	5	prey25184	275	CATCCGCAAGCAGTTGGCGGCTTTCTTAGAAGGCTTCTATGAGATCATTCCAAAGCGCCTCATTTCCATCTTCACTGAGCAGGAGTTAGAGCTGCTTATATCAGGACTGCCCACCATTGACATCGATGATCTGAAATCCAACACTGAATACCACAAGTACCAGTCCAACTCTATTCAGATCCAGTGGTTCTGGAGAGCATTGCGTTCTTTCGATCAAGCTGACCGTGCCAAGTTCCTCCAGTTTGTCACGGGTACTTCCAAGGTACCCCTGCAAGGCTTTGCTGCCCTCGAAGGCATGAATGGCATTCAGAAGTTTCAGATCCA	1013	IRKQLAAFLEGFYEIIPKRLISIFTEQELELLISGLPTIDIDDLKSNTEYHKYQSNSIQIQWFWRALRSFDQADRAKFLQFVTGTSKVPLQGFAALEGMNGIQKFQIHRDDRSTDRLPSAHTCFNQLDLPAYESFEKL

				TCGAGATGACAGGTCCACAGATCGCCTGCCTTCAGCTCACACATGTTTTAATCA GCTGGATCTGCCTGCCTATGAGAGCTTTGAGAAGCTCCGCCACATGCTACTGTT GGCTATCCAGGAGTGCTCTGAAGGCTTTGGGCTGGCCTAA		RHMLLLAIQECSEGFGLA*
Human OBRGRP_v 2	5	prey3296	276	CCGCCGTGTCTGCAATAGGTTCCATGCCTTCCTGCTCTACCTGGGCTACACCCC GCAGGCGGCCCGTGAAGTGCGCATCATGCAGTTCTGCCACACGCTGCGGGAATT TGCGCTTGAGTATCGGACTTGCCGGGAACGAGTGCTACAGCAGCAGCAGAAGCA GGCCACATACCGTGAGCGCAACAAGACCCGGGGACGCATGATCACCGAGACAGA GAAGTTCTCAGGTGTGGCTGGGGAAGCCCCCAGCAACCCCTCTGTCCCAGTAGC AGTGAGCAGCGGGCCAGGCCGGGGAGATGCTGACAGTCATGCTAGTATGAAGAG TCTGCTGACCAGCAGGCTTGAGGACACCACACACAATCGCCGCAGCAGAGGCAT GGTCCAGAGCAGCTCCCCAATCATGCCCACAGTGGGGCCCTCCACTGCATCCCC AGAAGAACCCCCAGGCTCCAGTTTACCCAGTGATACATCAGATGAGATCATGGA CCTTCTGGTGCAGTCAGTGAC	1014	RRVCNRFHAFLLYLGYTPQAARE VRIMQFCHTLREFALEYRTCRER VLQQQQKQATYRERNKTRGRMIT ETEKFSGVAGEAPSNPSVPVAVS SGPGRGDADSHASMKSLLTSRLE DTTHNRRSRGMVQSSSPIMPTVG PSTASPEEPPGSSLPSDTSDEIM DLLVQSV
Human OBRGRP_v 2	5	prey98550	277	TCCCCTAATATGTCTGCTAGGGCCAATAATCATGAAAGCAACAAAGGGTATAAA GAGAGATCAGAAGTACAGCACCAAAAAAAAAAAAAANNAGNTTTTNTTTTAAANN ANCCTTTTTTNGNTTTTTTTTNAAANTTANNAANNNGNCNCCTTTNCCNTTTTC CCNTTTTTTNATTNGGGAANTTTTTNCCCNTTTTAANNTTNTTAANNNTTTNNG NCNTTTTTNNGGGNNNCNTTTTTTTTTTGANGAAGNNNTCCCNNNNGGGGNTTT GGGGGNCNNNGGNGNCCAC	1015	SPNMSARANNHESNKGYKERSEV QHQKKKXXXXF*XXLFXXFFXXX XXXXFXXFPFFXXGXFXPF*XX* XFXXFXXXXFFF*XXXPXXGFGG XXXP
Human OBRGRP_v 2	5	prey98552	278	GTCCATGTATCGTTTCCATTTTAGTGTCTGNGCTGCCANACCANACGAGCGCTC TTTTCTTTTCTTTCTTTNTCTTTNNGATNNNCTNTNTNNTNNNNNNAGNNNGGG GNNTNTTNNNGTTTCCCCNGGNNGGGGGGGCCNGNGGGGCCGCGGCGGTGGNCC GCGNGGNGNGGGNGGGNNGGGGGGCCNCCCCGGGGGGGGCCCCGCGCGTAGNGG GNNGGGGTANCGTCGGNCGCNGCCGGNCGGGGCGGNNGAGCGTCGCGCGGCGGC GGGNCCGACGNGGGGNCNCGGCGAAGACGNGNCNNCGCGGCANCGCGCGGGCGG GCC	1016	VHVSFPF*CLXCXTXRALFSFLS XSXXXXXXXXXXGXXXXFPXXGG PXGPRRWXAXXGXXGGPPRGGPR A*XXGVXSXAAGRGGXASRGGGX DXGXRRRRXXAAXRGRA
Human OBRGRP_v 2	5	prey4637	279	TGAGAACATGTTGCAGAACAAGAAAACCAGCTCTCAGCTTTCACGTGAACGGGA GGAACAGGAGCGGAAGGAACTACAGCGAATGCTACTGGCAGCAGGCTCAGCAGC ATCCGGAAACAATCACAGAGATGATGACACAGCTTCCGTGACTAGCCTTAACTC TTCTGCCACTGGACGCTGTCTCAAGATTTATCGCACGTTTCGAGATGAAGAGGG GAAAGAGTATGTTCGCTGTGAGACAGTCCGAAAACCAGCTGTCATTGATGCCTA TGTGCGCATACGGACTACAAAAGATGAGGAATTCATTCGAAAATTTGCCCTTTT TGATGAACAACATCGGGAAGAGATGCGAAAAGAACGGCGGAGGATTCAAGAGCA ACTGAGGCGGCTTAAGAGGAACCAGGAAAAGGAGAAGCTTAAGGGTCCTCCTGA GAAGAAGCCCAAGAAAATGAAGGAGCGTCCTGACCTAAAACTGAAATGTGGGGC ATGTGGTGCCATTGGACACATGAGGACTAACAAATTCTGCCCCCTCTATTATCA AACAAATGCGCCACCTTCCAACCCTGTTGCCATGACAGAAGAACAGGAGGAGGA GTTGGAAAAGACAGTCATTCATAATGATAATGAAGAACTTATCAAGGTTGAAGG GACCAAAATTGTCTTGGGGAAACAGCTAATTGAGAGTGCGGATGAGGTTCGCAG	1017	ENMLQNKKTSSQLSREREEQERK ELQRMLLAAGSAASGNNHRDDDT ASVTSLNSSATGRCLKIYRTFRD EEGKEYVRCETVRKPAVIDAYVR IRTTKDEEFIRKFALFDEQHREE MRKERRRIQEQLRRLKRNQEKEK LKGPPEKKPKKMKERPDLKLKCG ACGAIGHMRTNKFCPLYYQTNAP PSNPVAMTEEQEEELEKTVIHND NEELIKVEGTKIVLGKQLIESAD EVRRKSLVLKFPKQQLPPKKKRR VGTTVHCDYLNRPHKSIHRRRTD PMVTLSSILESIINDMRDLPNTY

				AAAATCTCTGGTTCTCAAGTTTCCTAAACAGCAGCTTCCTCCAAAGAAGAAACGGCGAGTTGGAACCACTGTTCACTGTGACTATTTGAATAGACCTCATAAGTCCATCCACCGGCGCCGCACAGACCCTATGGTGACGCTGTCGTCCATCTTGGAGTCTATCATCAATGACATGAGAGATCTTCCAAATACATACCCTTTCCACACTCCAGTCAATGCAAAGGTTGTAAAGGACTACTACAAAATCATCACTCGGCC		PFHTPVNAKVVKDYYKIITR
Human OBRGRP_v 2	5	prey98555	280	ACCNGNGNATAGTATGCTGCTGGTTCNNTNTGTACCATNTACTGTAAGTTGTTNCTTATATCATGTGATAGTGCTGTAAAACGTGCCAATTTATTCTTCCTGTCTANNTGNACTTTATTATTGATTANCCCTCCTTTGTNTATTCNCNTTTCGACNGCCNTTNTNTGCCTGTGGTAACTGGTGGNTCTNCTTTGTGNTTGTGGTGGAGGCCGGNTGNGNTTGNCTCGCCTCGGGGGNGNGNACGTGGTGGGTGTTGATGCGGNTGNGGGGGGTGGGGGGNGTGGTCNNCGTGTGNACCGTNNTGGNGNGCTGGNGGTG	1018	TXX*YAAGSXCTXYCKLXLISCDSAVKRANLFFLSXXTLLLIXPPLXIXXSTAXXCLW*LVXLLCXCGGGRXXLXRLGGXXVVGVDAXXGGWGXWSXCXPXWXAGG
Human OBRGRP_v 4	6	prey98802	281	CTNTTNTGNCNCATTATCTTGGGGTGCANGTGGGCACGTACCTGCCCCTTCTCTTGGTTGCTGCGTTCCCCAGGTAGCGCTGCTCCAGCACATGGACACTTGCTGCTAATATGTGCANGATGATTGGGGNTNCNTGNATNNCTTTNGGTTGGAAGATGTGGGNTGNGNNGTGGGGAGGGGGGNGGNNNGGGANTTGGGGCGGGGGCGNNNTNGGGGGNNNTGNCGNNGGGGCCCGGGGNGGTTGGGTGNNGCNGCCNCCNNNATGTNNCGNNNGNGNGGNNNNNAGCGCNGNNNNGGCGGNGNGGGGACGGGGGTGNANGNGCNCGGNCNGCG	1019	LXXXIILGCXWARTCPFSWLLRSPGSAAPAHGHLLLICAX*LGXXXXLXVGRCGXXXGEGGGXGXGAGAXXGXXXXGPGXVGXXXXXXVXXXXXXAXXXRXGDGGXXARXA
Human OBRGRP_v 4	6	prey98558	282	TCTGGATTCAGAGTCCAGTGTGCTCACCGTTACACAATGGAATCTCTACAACTATGTTTCTCAAACTTCATGCACATCAGAATCATCTGGAGGGCTAAATCAAGCCCTTAGTCTCTGATTCAACAGGGTTGGGGTTCAAAATCAGTATTTCTAACAAGTTTCCAAGTGAAGCTACATTGCTTTAGAAAATCTAAAATGAGGAAAAGGGAAAAAAAGCATCACCAAGCATAACACTGGCTATATCAGATAATACAGTCTAGTCATAGGCTATGAGGCT	1020	SGFRVQCAHRYTMESLQLCFSNFMHIRIIWRAKSSP*SLIQQGWGSKSVFLTSFQVKLHCFRKSKMRKREKKHHQA*HWLYQIIQSSHRL*G
Human OBRGRP_v 4	6	prey98559	283	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTCAATTAAAGAGTCAGTTGCCTTTTTTAGTTCTCAAATCTAGGTATGGTTATTTCAGAATACTTACAACGAACTGGATTAAAATGTATGAGCCTTATAGGTGTCCATATTTCTAATAAAATTATTTTTAATTTTTATTTTACTAGAACATGAATATGTTAGGGAATTTTCAAATTTATTTTAATAGGACGTGAATATGTTANAGCATTTTCAA	1021	XXXXXXXXXXXXXXXXXXXXXXXXXXXQLKSQLPFLVLKSRYGYFRILTTNWIKMYEPYRCPYF**NYF*FLFY*NMNMLGNFQIYFNRT*ICXSIF
Human OBRGRP_v 4	6	prey19934	284	GCAGGAAATGGTGCACCAAGTGACAGACCTTTCTAGAAATGCCCAGCTGTTCAAGCGCTCTTTGCTGGAGATGGCAACGTTCTGA	1022	QEMVHQVTDLSRNAQLFKRSLLEMATF*
Human OBRGRP_v 4	6	prey94681	285	AGAGCAGCCGCCCGGTGCTGCTGAGCAAGATCGAGGGGCACCAGGACGCCGTCACGGCCGCGCTGCTCATCCCCAAGGAGGACGGCGTGATCACGGCCAGCGAGGACAGAACCATCCGGGTATGGCTGAAAAGAGACAGTGGTCAATACTGGCCCAGCATTTACCACACAATGGCCTCTCCTTGCTCTGCTATGGCTTACCATCATGACAGCAGACGGATATTTGTGGGCCAGGATAATGGAGCTGTAATGGAATTTCACGTTTCTGAAG	1023	SSRPVLLSKIEGHQDAVTAALLIPKEDGVITASEDRTIRVWLKRDSGQYWPSIYHTMASPCSAMAYHHDSRRIFVGQDNGAVMEFHVSEDFNKMNFIKTYPAHQNRVSAIIFSLA

				ATTTAATAAAATGAACTTTATCAAGACCTACCCAGCTCATCAGAACCGGGTGT CTGCGATTATCTTCAGCTTGGCCACAGAGTGGGTGATCAGTACCGGCCACGACA AGTGTGTGAGCTGGATGTGCACGCGGAGCGGGAACATGCTCGGGAGGCACTTCT TCACGTCCTGGGCTTCGTGTCTGCAATATGACTTTGACACTCAGTATGCTTTCG TTGGTGATTATTCTGGGCAGATCACCCTGCTGAAGCTTGAACAGAACACGTGTT CAGTCATCACAACCCTCAAAGGACATGAAGGTAGTGTCGCCTGCCTCTGGTGGG ACCCTATTCAGCGGTTACTCTTCTCAGGAGCATCTGACAACAGCATCATCATGT GGGACATCGGAGGAAGGAAAGGCCGGACGCTGTTACTTCAGGGCCATCATGACA AGGTGCAGTCGCTGTGCTACCTTCAGCTCACCAGGCAGCTCGTCTCCTGTTCCT CGGACGGCGGAATTGCAGTGTGGAACATGGATGTTAGCAGAGAAGAGGCTCCTC AGTGGTTGGAAAGTGATTCTTGTCAGAAATGTGAGCAGCCATTTTTCTGGAACA TAAAGCAGATGTGGGACACCAAGACGCTGGGGCTAAGACAACATCACTGCAGGA AATGCGGGCAGGCTGTCTGCGGGAAGTGCAGCAGCAAGCGCTCAAGTTACCCAG TCATGGGCTTCGAGTTCCAAGTCCGGGTTTGTGATTCTTGTTACGACTCCATCA AAGATGAAGATCGGACTTCTCTAGCGACCTTTCATGAAGGAAAACATAACATTT CCCACATGTCCATGGACATTGCCAGGGGACTGATGGTGACCTGTGGGACCGACC GCATTGTAAAGATCTGGGACATGACACCTGTGGTGGGCTGCAGTCTGGCGACTG GGTTTTCTCCGCACTGA		TEWVISTGHDKCVSWMCTRSGNM LGRHFFTSWASCLQYDFDTQYAF VGDYSGQITLLKLEQNTCSVITT LKGHEGSVACLWWDPIQRLLFSG ASDNSIIMWDIGGRKGRTLLLQG HHDKVQSLCYLQLTRQLVSCSSD GGIAVWNMDVSREEAPQWLESDS CQKCEQPFFWNIKQMWDTKTLGL RQHHCRKCGQAVCGKCSSKRSSY PVMGFEFQVRVCDSCYDSIKDED RTSLATFHEGKHNISHMSMDIAR GLMVTCGTDRIVKIWDMTPVVGC SLATGFSPH*
Human OBRGRP_v 4	6	prey98578	286	GCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGNTTNGGATNTG NCTGTCTTGGGCNTTCNAAANTGCTNGGNTTTGTTNGNGNGGAGCNGTGTNGCC TNCGGTGTAGGTNNGGGTANGGTTNTAGATGNGNGAGNCNGGTTGGCCGTANTG NNCGNCATAGNGGGTGGNGANTTGGTGTGNNG	1024	AXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXX XXXXXXDXXVLGXXXCXXLXXXS XVAXGVGXGXVXDXXXXLAVXXX IXGGXLVX
Human OBRGRP_v 4	6	prey93160	287	ATGGGCGACAAAGGGACCCGAGTGTTCAAGAAGGCCAGTCCAAATGGAAAGCTC ACCGTCTACCTGGGAAAGCGGGACTTTGTGGACCACATCGACCTCGTGGACCCT GTGGATGGTGTGGTCCTGGTGGATCCTGAGTATCTCAAAGAGCGGAGAGTCTAT GTGACGCTGACCTGCGCCTTCCGCTATGGCCGGGAGGACCTGGATGTCCTGGGC CTGACCTTTCGCAAGGACCTGTTTGTGGCCAACGTACAGTCGTTCCCACCGGCC CCCGAGGACAAGAAGCCCCTGACGCGGCTGCAGGAACGCCTCATCAAGAAGCTG GGCGAGCACGCTTACCCTTTCACCTTTGAGATCCCTCCAAACCTTCCATGTTCT GTGACACTGCAGCCGGGGCCCGAAGACACGGGGAAGGCTTGCGGTGTGGACTAT GAAGTCAAAGCCTTCTGCGCGGAGAATTTGGAGGAGAAGATCCACAAGCGGAAT TCTGTGCGTCTGGTCATCCGGAAGGTTCAGTATGCCCCAGAGAGGCCTGGCCCC CAGCCCACAGCCGAGACCACC	1025	MGDKGTRVFKKASPNGKLTVYLG KRDFVDHIDLVDPVDGVVLVDPE YLKERRVYVTLTCAFRYGREDLD VLGLTFRKDLFVANVQSFPPAPE DKKPLTRLQERLIKKLGEHAYPF TFEIPPNLPCSVTLQPGPEDTGK ACGVDYEVKAFCAENLEEKIHKR NSVRLVIRKVQYAPERPGPQPTA ETT
Human OBRGRP_v 4	6	prey3777	288	GACATCGAAAGTCAGGAAATTGAAGCTCAAGAAGGTGAAGATGATACCTTTCTA ACAGCCCAAGATGGTGAGGAAGAAGAAAATGAGAAAGATATAGCAGGTTCTGGT GATGGTACACAAGAAGTATCTAAACCTCTTCCTTCAGAAGGGAGCCTAGCTGAG GCTGATCACACAGCTCATGAAGAGATGGAAGCTCATACGACTGTGAAAGAAGCT	1026	DIESQEIEAQEGEDDTFLTAQDG EEEENEKDIAGSGDGTQEVSKPL PSEGSLAEADHTAHEEMEAHTTV KEAEDDNISVTIQAEDAITLDFD

				GAGGATGACAACATCTCGGTCACAATCCAGGCTGAAGATGCCATCACTCTGGATTTTGATGGTGATGACCTCCTAGAAACAGGTAAAAATGTGAAAATTACAGATTCTGAAGCAAGTAAGCCAAAAGATGGGCAGGACGCCATTGCACAGAGCCCGGAGAAGGAAAGCAAGGATTATGAGATGAATGCGAACCATAAAGATGGTAAGAAGGAAGACTGCGTGAAGGGTGACCCTGTCGAGAAGGAAGCCAGAGAAAGTTCTAAGAAAGCAGAATCTGGAGACAAAGAAAAGGATACTTTGAAGAAAGGGCCCTCGTCTACTGGGGCCTCTGGTCAAGCAAAGAGCTCTTCAAAGGAATCTAAAGACAGC		GDDLLETGKNVKITDSEASKPKDGQDAIAQSPEKESKDYEMNANHKDGKKEDCVKGDPVEKEARESSKKAESGDKEKDTLKKGPSSTGASGQAKSSSKESKDS
Human OBRGRP_v 4	6	prey98583	289	NTTTNTTTTATTTTTTTCTAAAANAAANTNTTAGCTNTTAAATTTAGGTCTTTTATCCACTTATGTGTTNATTTTTGNATATAGCTTATTTTAATATTTTAAGGATTTAACGTGATTNTTTTGNNCNTGGNNGNGCNGGTTTTTNNGGGGGCNGTTGGGNTGNAGAAGGGGGGGGCTNGGGGGGTGGGGGGTGGNNGNGGGCGGGGGTGGGGGGGGGGGGNGGGGTGGGAGGGGTGGGGTGGNGGGGTGNGGNGGTGGGGGCGCNGGTGGGGTGGGNNGNGGNGGGNAGGGGCGGGGGGGGGGGGGTGNGGGNGGNGGGG	1027	XXFIFF*XKXLAXKFRSFIHLCVXFXI*LILIF*GFNVIXLXXXXXVFXGAVGXXKGGAXGVGGGXGRGWGGGXGWEGWGGGVXXWGRXWGGXXXXGAGGGGXGXX
Human OBRGRP_v 4	6	prey98773	290	TATATATATAGGGATATATTTGCATATAGTATATAAACTATAACATATAAAACTATGTAATTATATAGTTTGTGATACAGGTGGGCATCCAAGTAAAATAACAATTTGGTTATGTGGCCTAGCCAGGANACAACATGTTGTACTCAACTGGATATTTTGGTTATCTGAGACTGGNGNGGGTNTCCTGAATTTTACATCTTGGNCNNTTGGCTAGTNNTNTTCCTTGTGGANATGTATGCCGCTTTGTGGCCGCGTTGGNNGGGGGNGNCCGNGGCNTCGCNNNGNGGGGGGGGCNNCGNG	1028	YIYRDIFAYSI*TITYKTM*LYSL*YRWASK*NNNLVMWPSQXTTCCTQLDILVI*DWXGXPEFYILXXWLVXFLVXMYAALWPRWXGXXXASXXGGGXX
Human OBRGRP_v 4	6	prey98598	291	TTTTCCCAGTTTTACCCAAAAGATCCCTGTCTGTGTGGATGCCAGATGAAGACTAGTCCATACTTTGTATGTTTCTTTCTGTAACTCCATTCACTCCTGAAATCATGGCAGTGTTTTTCCACCTATAATATTATTCCTTCTCGATTTTTTAGCTTTTTATACATTACTAGATTTTGTAGATTTTTGGTAGATATCCTTATTAAACTAAGGGAGTTCCCATCTGTCTTTGNTGGGAGTATTTATCGTAAATAGATATTGGAATAGTCTAATGTGTTTTA	1029	FSQFYPKDPCLCGCQMKTSPYFVCFFL*LHSLLKSWQCFSTYNIIPSRFFSFLYITRFCRFLVDILIKLREFPSVFXGSIYRK*ILE*SNVF
Human OBRGRP_v 4	6	prey11988	292	ATGGACGACTCAGAGCTGGAGTCGACCGCCAGCATCTTGGCCTCTGTGAAGGAACAAGAGGCCCAGTTTGAGAAGCTGACCCGGGCGCTGGAGGAGGAACGGCGCCACGTCTCGGCGCAGCTGGAACGCGTCCGGGTCTCACCACAAGATGCCAACCCACTCATGGCCAACGGCACACTCACCCGCCGGCATCAGAACGGCCGGTTTGTGGGCGATGCTGACCTTGAAAGACAGAAATTTTCAGATTTGAAACTCAACGGACC	1030	MDDSEVESTASILASVKEQEAQFEKLTRALEEERRHVSAQLERVRVSPQDANPLMANGTLTRRHQNGRFVGDADLERQKFSDLKLNG
Human OBRGRP_v 4	6	prey98600	293	GGCAAGGAANCAATCATGATGAAGCTTCCAGCATCTCATTGTTTGGATGTGGTGATCTGGTGAATTTCANTTCTTTGATATTTTTTGATAGCANAANGTNATTTNCTGGANGGAATAAACTNANGNGGNGGGGGGGGGGGNNCCTGGGNGTGNNGGGNCTGGTNTGTGGTGTGNGGGTGTTGNNGGGGGGGGGGNGNNGTGNGCTGNTGGGGGGGGGTGNAAGNNGNAGGTGGGGGGGGANNGGGGNGGGGGGGGGGGGTNGGGGTGCGGGCCCGNGGTNNGGNGCCCGGNGGTGGNGNNGGGAGGNGGGAGGGCCGGGGGCGCGGGGGGNGTGNTGGNGGGTGNGGGCNCCT	1031	GKEXIMMKLPASHCLDVVIW*ISXL*YFLIAXXXXLXGINXXGGGGGXWXXXXWXVVXGCXXGGGXVXXWGGVXXXGGGGXGXGGGGXGAGPXXGARXWXXEXGGPGARGXXWXVXAP
Human	6	prey89311	294	GGAACCTGGAGCAAGAGATTTCTTTTGACTTTGGCCCCAACGGGGAGTTTGCTT	1032	NLEQEISFDFGPNGEFAYLYSQC

OBRGRP_v 4				ACCTGTACAGCCAGTGCTACGAGCTCACCACCAACGAATACGTCTACCGCCTCT GCCCCTTCAAGCTTGTCTCGCAGAAACCCAAACTCGGGGGCTCTCCCACCAGCC TTGGCACCTGGGGCTCATGGATTGGCCCCGACCACGACAAGTTCAGTGCCATGA AGTATGAGCAAGGCACGGGCTGCTGGCAGGGCCCCAACCGCTCCACCACCGTGC GCCTCCTGTGCGGGAAAGAGACCATGGTGACCAGCACCACAGAGCCCAGTCGCT GCGAGTACCTCATGGAGCTGATGACGCCAGCCGCCTGCCCGGAGCCACCGCCTG AAGCACCCACCGAAGACGACCATGACGAGCTCTAG		YELTTNEYVYRLCPFKLVSQKPK LGGSPTSLGTWGSWIGPDHDKFS AMKYEQGTGCWQGPNRSTTVRLL CGKETMVTSTTEPSRCEYLMELM TPAACPEPPPEAPTEDDHDEL*
Human OBRGRP_v 4	6	prey98613	295	CTTAGTAGTTGAGACTACAGGTACATGCCACAATACGCGGCTAACTTTTGTATT TTTTTGAGATAGAANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTGTGCACTT ATCTGCCTGGCCTAGTCTGACTTATTACTGAGTCACCAGGGTGGCTTACTTCTT TGTCCACAGGTTATCTAATAATGTCCAGATATCATTCATGTGCAGTTGCATTGT GATAGGGTAACAGTGACCTATCTGTGATGAAGAGCCAATAATATGTAAAGCCCA GAGGGCTCAAAGGGCAGGACTGGGCTTATCGTGGAAGGAGTGGATTGTTCATTT ACTGCATTATCAGTATTCAAGTAAATTTGCTGAAGATGATAACTGTGACTTAAG CCAAGAAAGGTAAAATATAGAATTATTGAGGG	1033	LVVETTGTCHNTRLTFVFF*DRX XXXXXXXXXXXXXXXXXXXXXXX XXXXXVHLSAWPSLTYY*VTRVA YFFVHRLSNNVQISFMCSCIVIG *Q*PICDEEPIICKAQRAQRAGL GLSWKEWIVHLLHYQYSSKFAED DNCDLSQER*NIELLR
Human OBRGRP_v 4	6	prey98679	296	TGGGTCACAGGCAAGTTGAACATGACACACTGCTGAGTTTCAGGTCCAATCCTT CGAGTTCAGGCCACGTTAAATGTGTCTGAAGCAGGGCTGGTGTGGATGCAATAT TGTTTACCCAGTCAGCCAAGGGCTGCACCACTGGAGCCATGCTGGCTAGCCATG GCCCTGTTCACAAAGGGGCCTTGTGGCTCTGGGGCCCAGCCTCAATGGCCTGTC TGTTACGTCTCCTGAGACATTTGATGCGTCATATTAACCAGCTGCCAAGCCTGG CAGTCAGCTCAAATCCCTCACACATTTCTTCTTCTTTCTAACGTCATAACTTTG AGAAAAATGACCTCCAAAAGTGGTTCCNCTCNTCGCGGGNCNTTNGGGGGNCCN NTGGGGGCCCNTGGNNNTGGNANGGGGNNTAT	1034	WVTGKLNMTHC*VSGPILRVQAT LNVSEAGLVWMQYCLPSQPRAAP LEPCWLAMALFTKGPCGSGAQPQ WPVCYVS*DI*CVILTSCQAWQS AQIPHTFLLLSNVITLRKMTSKS GSXXRGXXGGPXGAXGXGXGX
Human OBRGRP_v 4	6	prey3518	297	ATGGAGCCGCCGAATCTCTATCCGGTGAAGCTCTACGTGTACGACCTGTCCAAA GGCCTGGCCCGGCGGCTCAGCCCCATCATGCTGGGGAAACAACTGGAAGGCATC TGGCACACATCCATAGTTGTGCACAAGGATGAGTTCTTCTTCGGCAGTGGTGGT ATCTCCAGCTGCCCCCCGGGAGGGACATTGCTTGGGCCTCCAGACTCTGTGGTT GATGTGGGGAGTACAGAAGTCACAGAAGAAATCTTTCTGGAGTACCTCTCCTCC CTGGGGGAGTCCCTGTTCCGAGGTGAGGCCTACAACCTCTTTGAACACAATTGT AACACCTTCAGCAACGAAGTGGCACAGTTCCTGACTGGGCGGAAGATTCCTTCT TACATCACAGACCTGCC	1035	MEPPNLYPVKLYVYDLSKGLARR LSPIMLGKQLEGIWHTSIVVHKD EFFFGSGGISSCPPGGTLLGPPD SVVDVGSTEVTEEIFLEYLSSLG ESLFRGEAYNLFEHNCNTFSNEV AQFLTGRKIPSYITDL
Human OBRGRP_v 4	6	prey46035	298	GCAGCTAGGGGACCTCTTCTCCAAGGCAGGAGACTTTCCCAGGGCAGCTGAGGC TTACCAGAAGCAGCTGCGTTTTGCTGAGCTGCTGGACAGACCGGGTGCTGAGCG GGCCATCATCCACGTGTCCCTGGCCACCACACTGGGAGACATGAAGGACCACCA TGGGGCCGTGCGCCACTATGAGGAGGAACTGAGGCTGCGCAGCGGCAACGTGCT GGAGGAGGCCAAGACCTGGCTGAACATTGCACTGTCCCGCGAGGAGGCCGGCGA TGCCTACGAGCTGCTGGCCCCGTGCTTCCAGAAAGCGCTCAGCTGTGCCCAGCA GGCCCAGCGTCCCCAGCTGCAGAGGCAGGTCTTGCAGCATCTCCATACCGTGCA	1036	QLGDLFSKAGDFPRAAEAYQKQL RFAELLDRPGAERAIIHVSLATT LGDMKDHHGAVRHYEEELRLRSG NVLEEAKTWLNIALSREEAGDAY ELLAPCFQKALSCAQQAQRPQLQ RQVLQHLHTVQLRLQPQEAPETE TRLRELSVAEDEDEEEEAEEAAA

				GCTGAGGCTGCAGCCCCAGGAGGCCCCTGAGACCGAAACCAGACTGCGGGAGCT		TAESEALEAGEVELSEGEDDTDG
				CAGTGTAGCTGAAGATGAAGATGAGGAGGAGGAGGCGGAGGAGGCGGCAGCCAC		LTPQLEEDEELQGHLGRRKGSKW
				AGCGGAGAGCGAAGCCCTGGAGGCCGGCGAGGTGGAGCTCTCAGAGGGCGAGGA		NRRNDMGETLLHRACIEGQLRRV
				CGACACCGATGGCCTGACCCCGCAGCTGGAGGAGGACGAGGAGCTTCAGGGCCA		QDLVRQGHPLNPRDYCGWTPLHE
				CCTGGGCCGGCGGAAGGGGAGCAAGTGGAACCGGCGAAACGACATGGGGGAGAC		ACNYGHLEIVRFLLDHGAAVDDP
				CCTGCTGCACCGAGCCTGCATCGAGGGCCAGCTGCGCCGCGTCCAGGACCTTGT		GGQGCEGITPLHDALNCGHFEVA
				GAGGCAGGGCCACCCCCTTAACCCTCGGGACTACTGTGGCTGGACACCTCTGCA		ELLLERGASVTLRTRKGLSPLET
				CGAGGCCTGCAACTACGGGCATCTAGAAATTGTCCGCTTCCTGCTGGACCACGG		LQQWVKLYRRDLDLETRQKARAM
				GGCCGCAGTGGACGACCCAGGTGGCCAGGGCTGCGAAGGCATCACCCCCCTCCA		EMLLQAAASGQDPHSSQAFHTPS
				CGATGCCCTCAACTGTGGCCACTTCGAGGTGGCTGAGCTGCTGCTTGAACGGGG		SLLFDPETSPPLSPCPEPPSNST
				GGCGTCCGTCACCCTCCGCACTCGAAAGGGCCTCAGCCCGCTGGAGACGCTGCA		RLPEASQVHVRVSPGQAAPAMAR
				GCAGTGGGTGAAGCTGTACCGCAGGGACCTGGACCTGGAGACGCGGCAGAAGGC		PRRSRHGPASSSSSSEGEDSAGP
				CAGGGCCATGGAGATGCTGCTCCAGGCGGCTGCCTCGGGCCAAGATCCCCACAG		ARPSQKRPRCSATAQRVAAWTPG
				CTCCCAGGCCTTCCACACCCCAAGCAGCCTTCTGTTTGACCCCGAGACCTCTCC		PASNREAATASTSRAAYQAAIRG
				TCCTTTGAGCCCCTGCCCAGAACCCCCCTCTAATAGCACTAGACTCCCAGAGGC		VGSAQSRLGPGPPRGHSKALAPQ
				CTCTCAGGTCCATGTCAGGGTCTCCCCAGGGCAGGCGGCACCAGCCATGGCCAG		AALIPEEECLAGDWLELDMPLTR
				GCCTCGGAGGAGCAGGCATGGGCCAGCCAGCAGCAGCAGCAGCTCAGAAGGCGA		SRRPRPRGTGDNRRPSSTSGSDS
				GGACAGCGCAGGCCCCGCACGGCCGTCCCAGAAGAGGCCTCGGTGCTCGGCCAC		EESRPRARAKQVRLTCMQSCSAP
				AGCACAACGGGTGGCAGCCTGGACGCCTGGCCCCGCCAGCAACAGGGAAGCAGC		VNAGPSSLASEPPGSPSTPRVSE
				CACAGCCAGCACCAGCCGGGCAGCCTACCAGGCAGCCATCCGGGGTGTGGGCAG		PSGDSSAAGQPLGPAPPPPIRVR
				TGCTCAGAGCCGGCTGGGGCCTGGCCCACCGCGGGGCCACAGCAAAGCCCTTGC		VQVQDHLFLIPVPHSSDTHSVAW
				CCCCCAGGCAGCGCTCATCCCGGAGGAGGAGTGCCTGGCTGGGGACTGGCTGGA		LAEQAAQRYYQTCGLLPRLTLRK
				GCTGGACATGCCCCTGACCCGCAGCCGCCGGCCCCGCCCCCGGGGCACTGGAGA		EGALLAPQDLIPDVLQSNDEVLA
				CAACCGCAGGCCCAGTAGTACCTCTGGGTCGGACAGTGAGGAGAGCAGGCCCCG		EVTSWDLPPLTDRYRRACQSLGQ
				TGCCCGAGCCAAGCAGGTCCGCCTGACCTGCATGCAGAGTTGCAGTGCGCCAGT		GEHQQVLQAVELQGLGLSFSACS
				TAACGCAGGGCCCAGCAGCCTGGCTTCAGAACCTCCAGGGAGCCCCAGCACCCC		LALDQAQLTPLLRALKLHTALRE
				CAGGGTCTCAGAGCCCAGTGGGGACAGCTCTGCGGCAGGCCAGCCCTTGGGTCC		LRLAGNRLGDKCVAELVAALGTM
				GGCCCCGCCCCCTCCCATCCGGGTTCGAGTTCAAGTTCAGGATCATCTCTTCCT		PSLALLDLSSNHLGPEGLRQLAM
				CATCCCTGTCCCACACAGCAGTGACACCCACTCTGTGGCCTGGCTGGCCGAGCA		GLPGQATLQSLEELDLSMNPLGD
				GGCGGCCCAGCGCTACTACCAGACCTGCGGGCTGCTGCCCAGGCTCACCCTACG		GCGQSLASLLHACPLLSTLRLQA
				GAAAGAGGGGGCCCTGCTGGCCCCACAGGACCTCATCCCTGATGTGCTGCAGAG		CGFGPSFFLSHQTALGSAFQDAE
				CAATGACGAGGTGTTGGCTGAGGTGACTTCGTGGGACCTGCCCCCGTTGACTGA		HLKTLSLSYNALGAPALARTLQS
				CCGCTACCGCAGGGCCTGCCAGAGCCTGGGGCAAGGGGAGCACCAACAGGTGCT		LPAGTLLHLELSSVAAGKGDSDL
				GCAGGCCGTGGAGCTCCAGGGCTTGGGCCTCTCGTTCAGCGCCTGCTCCCTGGC		MEPVFRYLAKEGCALAHLTLSAN
				CCTGGACCAGGCCCAGCTTACACCCCTGCTGCGGGCCCTCAAGCTGCACACAGC		HLGDKAVRDLCRCLSLCPSLISL
				ACTCCGGGAGCTGCGCCTGGCAGGGAACCGGCTGGGGGACAAGTGTGTGGCTGA		DLSANPEISCASLEELLSTLQKR
				GCTGGTGGCTGCCCTGGGCACCATGCCCAGCCTGGCCCTCCTTGACCTCTCCTC		PQGLSFLGLSGCAVQGPLGLGLW
				CAATCACCTGGGTCCCGAAGGCCTGCGCCAGCTTGCCATGGGGCTCCCAGGCCA		DKIAAQLRELQLCSRRLCAEDRD
				AGCCACCTTGCAGAGTTTGGAGGAGCTGGACTTAAGCATGAACCCCCTGGGGGA		ALRQLQPSRPGPGECTLDHGSKL

				CGGCTGTGGCCAGTCCCTGGCCTCCCTCCTGCACGCCTGCCCCTTACTCAGCAC CCTGCGCCTGCAGGCGTGTGGCTTCGGCCCCAGCTTCTTTCTGAGCCACCAGAC AGCACTGGGTAGTGCTTTCCAAGATGCTGAGCACCTGAAGACCCTGTCCCTGTC CTACAACGCCCTGGGAGCCCCTGCCCTGGCCAGGACCCTGCAGAGCCTGCCCGC CGGCACCCTCCTGCACTTAGAGCTCAGCTCCGTGGCAGCCGGCAAGGGTGATTC GGACCTCATGGAGCCTGTATTCCGATACCTGGCCAAGGAAGGCTGTGCTCTAGC CCACCTGACCCTGTCTGCAAACCACCTGGGGGACAAGGCTGTTAGAGACCTGTG CAGATGTCTCTCTCTGTGCCCCTCACTCATCTCACTGGATCTGTCTGCCAACCC TGAGATCAGCTGTGCCAGCTTGGAAGAGCTCCTGTCCACCCTCCAAAAGCGGCC CCAAGGCCTTAGCTTCCTTGGCCTGTCAGGCTGCGCCGTCCAGGGTCCCCTGGG CCTGGGCCTGTGGGACAAGATAGCCGCGCAGCTCCGGGAACTGCAGCTGTGCAG CAGACGCCTCTGCGCTGAGGACAGGGACGCCCTGCGCCAGCTGCAGCCCAGTCG GCCGGGCCCCGGCGAGTGCACGCTGGACCACGGCTCCAAGCTCTTCTTTCGGCG CCTCTGA		FFRRL*
Human OBRGRP_v 4	6	prey25486	299	CTCATGCCTGCTGAGCGTGCGGGCCGGCAAAGATGGCTGGTTCCAGCTCTACAG CCCCGGAGGGGTGGCCTGCGACGATGACGGGGAGCTGTTCGCCAGCATGGTGCA CATCCTCATGGGCTCCTGTTACAAGACCAAAAAATTCCTGCTCTCCCTGGCAGA AAACAAGCTGGGTCCCTGCATGCTCCTGGCACTGAGGGGGAACCAGACCATGGT GGAGATCCTGTGCTTGATGCTGGAATACAACATCATCGACAACAACGACAC	1037	SCLLSVRAGKDGWFQLYSPGGVA CDDDGELFASMVHILMGSCYKTK KFLLSLAENKLGPCMLLALRGNQ TMVEILCLMLEYNIIDNND
Human OBRGRP_v 4	6	prey98681	300	AAGGTGGANATGGGGGTCATATATTACCANGGCTAGCAGGTCTGTGCTTCNGAN AGGAANTANGGNATCACNCGCTTCCCTCTANAATTGATCTGNTGCGGANCNAGA NTCCTCGAGCAGCATTACAAAGCTGCGCCAGGCTCCCTTTCCCTGTTCAGTCGT TCGTTCCTGGACTAGATGGGTGGAANGAGGCATCTCTGGGTTTCACANAGCACA GAGGGCACGGCTTGTTTCNTANCCGGGTCTCAAAACNTGCCTGCACTTTGGGCT TTTTNTTCNCCTTNCCATATGTTGNTTCNTGCCCTTNTGANCCTCCTTCCGGAG CTGATTGCAGTTATGTGCTAGGAAAGGAGTATTTGTCTTCAAGGTCTGAATGCA TCNTAATCCTTANTGAACTGCAAGGTGTGATGGCACGACTTGGATATGTAAGTG AGAATTGATTCAGGTCACAGGGGATGCC	1038	KVXMGVIYYXG*QVCASXRXXGI TRFPLXLIXCGXRXLEQHYKAAP GSLSLFSRSFLD*MGGXRHLWVS XSTEGTACFXXGSQNXPALWAFX SPXHMLXXALXXLLPELIAVMC* ERSICLQGLNAS*SLXNCKV*WH DLDM*VRIDSGHRGC
Human OBRGRP_v 4	6	prey98683	301	GCTGGCTTAGGAAAGGTGAAATATGATTAGCTCCTGTTTCTGACCCAATAAGTG CAGGATCTCTGTAAACTGTAAAATGCTCATTTTTATCAATGATAAGAGGACTCT TTGTAGTTTCTAATGTACTGCTTCGAGTAGGAATTGGATGAAAACTGCATCTTG ATAGCTCATGTTCTATCTTATTTGCCAATCTTCTTTCACCAGTAGCTTGGCTGT TCACATAAGTGGCCTTAGACTTTACAGAATCAGGAGAATGAGTTATTTTGGGTT TAACAACTTCAGGTGATGGGCTGGATTTTATCTTGTGAGTATCTACTGAAGTAT TAAGTTTAGATTTTATAGTCTCTGGAGGTGGACTTCGCTTATGCAGCTTATCTT CCATGACAGAAACTGCACTTAAAGGAGAAATGTAAG	1039	AGLGKVKYD*LLFLTQ*VQDLCK L*NAHFYQ**EDSL*FLMYCFE* ELDENCILIAHVLSYLPIFFHQ* LGCSHKWP*TLQNQENELFWV*Q LQVMGWILSCEYLLKY*V*IL*S LEVDFAYAAYLP*QKLHLKEKCK
Human OBRGRP_v 4	6	prey98692	302	CAGTAATGTCATGGAAAAAGAATAGTGGAGAGGAGCCATGAGATTCCTACAG AAAACAACTGGAAAATGTTCCCAAAGTAATACTCTCAAGGGTCTTTTAGTTGTA TAGGCCCAGGCCAGAGCATGGGANCTTGAGAATAAGGTGGTAAATACAATNTCA	1040	Q*CHGKKNSGRGAMRFLQKTTGK CSQSNTLKGLLVV*AQARAWXLE NKVVNTXS**LLGXSVFXXNICK

				TAATAATTACTGGGANNNAGTGTATTCCANANAAATATCTGTAAGGAAAGGNGG TGANGNNAATGCCGGTGGCGTGGGGGCGGATGGGTGNGGNGTGGGGTGGGGGG TGGGCGGGCGGGGGGGGGGGTGGGGGGGGGGGGNGG		ERX*XXCRWRGGRMGXXWGGGWA GGGGGGGGGX
Human OBRGRP_v 4	6	prey98699	303	AAAACTAAAACAACAACAACAAAAAACCACAACTGCCTACTGCTTACCCAGGGC ATGTTATCCTATTACATTTGAATTCAAGTAACAGCTAGTATTTGTCAAATCATA ATTGATCTGATAAAATGTAATCTGATCATTAGTAGCTGTGTAAACGTAAATACA CTCGACTCCTGTTTCATTTGCCCTTGAAGGCTGTAACATGGTTCCAAAGTGTAC CTTTGAACCGGAGAAGTCGGGCCGGTTCACATTGCAGCCTGTGTGCTTCCTGGG GCAGCGTCCACCAGGTGTGTGCGGGCAGGTACAGGATGCGAGCTCAGTCCTGCT TCCCCTGAAATCCTGTGACCTGGCAGAGGGCTGTGTTCCTGTGTCCTTACATCG GATGTCCTACTGAAGAAAGGGAAACTGGGACGAAGCTGTAGGCACAGTGGGTTC TGAAGATCAGATATAACTGAGGGAAAGTTAGGTCATGATTGCCA	1041	KTKTTTTKNHNCLLLTQGMLSYY I*IQVTASICQIIIDLIKCNLII SSCVNVNTLDSCFICP*RL*HGS KVYL*TGEVGPVHIAACVLPGAA STRCVRAGTGCELSPASPEIL*P GRGLCSCVLTSDVLLKKGKLGRS CRHSGF*RSDITEGKLGHDC
Human OBRGRP_v 4	6	prey98703	304	GAGGATTGCTTGAGGCTGGCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNCAGGCAATATGGCAGCACCCTGTCTCTTAAA AAAAAAAAAANGNANNTTNCNGNNGNNGNGTTTTAATTTTAANTCAGGGTNAT TTTGTTANCTTTNTCNNGCNTTTGNNTNACCNTTCNTACNTTTNTNTTTTGNTA ANAATGNGTNTTTTNTTAAAAATCCCCCCNNTCTTTTCCNNNTAGCNAAACCNA GTTTTTTTTTGGNNNGNAAANAN	1042	EDCLRLAXXXXXXXXXXXXXXXX XXXRQYGSTLSLKKKKXXXXXXX FLILXQGXFVXFXXXLXXXSYXX XLXXMXXXLKIPPXFSX*XNXVF FWXXX
Human OBRGRP_v 4	6	prey98705	305	TCCCCTAATATGTCTGCTAGGGCCAATAATCATGAAAGCAACAAAGGGTATAAA GAGAGATCAAGAAGTACAGCACCAAAAAAAAAAAAANANGNTTTNNTTTTAAAN AACCCTTTTTTNGGTTTTTTTTNAAANTTNNNAANANGNCGGNTTTNNCNTTTT CCCNTTTTTTNATTNGGGANNTTTTNCCCNTTTTAANNTTNTTNAAATTTTTG GGANNNNNTTNCNGNNNNCCTTTTTTTNGTNGANNAAANANNTCCCCCAGGGGG GNNTTTGGGGGGGTCAG	1043	SPNMSARANNHESNKGYKERSRS TAPKKKKXXXXLXNPFXGFFXXX XXXRXXXFPXFXXGXFXPXLXXX KFLGXXXXXPFFXXXXXSPRGXF GGV
Human OBRGRP_v 4	6	prey98706	306	ATTTTTCCATTTGATTCTTCCCAGGAATTTTGTTCCTTTTGACAACAAACGCAA ATGTGTCATTTGATTCCTCGAGCCTCTAAGCTTTCTTTCTTTCTTTTCTTTTTT TTTTTTTTNANAAAANGNNNGGGGGGGGAANNNTAGGGGTAGGGNNAAGGNGGN NNNNTNTGGGGGGGGGGGGGGGNNNAGNGNTTTCCNCNGNGCGGGNNNGGGGGG GGGGGGGNGGGGGGGNGGANNGGGGGCGNGGGGGGNGGNGCGGNGGNNGGNTGG NGNGNGGGNCGGGCGCGGGGGGNGGGGGCGGGGGNGAAGGGCGGGGGGCGGGGG GCA	1044	IFPFDSSQEFCSF*QQTQMCHLI PRASKLSFFLFFFFFXXKXXGGE X*G*GXGGXXWGGGGXXXFPXXG XGGGGXGGXXGGXGGAXXGWXX GRARGXGAGXKGGGRGA
Human OBRGRP_v 4	6	prey98731	307	ATAAATCTAAGTTATTTTATTTAGTTTAAGCAAAATATGTATCCATATGAAAAT GCCAGTTCTTTCATTTTTGGTTAATTCCTTTACACATATTATTTGCTAAGTTCA GAAATGCTATATATACANNNGNGGNNNAAATAAATAAGTNTNCCAAGATNACAT NGCAATACTTNGAGNNCNTTCATGTGTNNGAAGGCAANAANNGAAGGNNGGTNT GNTGGNTGGTGGGTNCGANNTGGTGGNCGGCGGTGGTGTGGGGGGGGTGGGGGT GGNTGNGGGGATNGGGNGGTGATGGGGGCGCTNGNNNGGGGGGGGGGNGCGGGG GGGN	1045	INLSYFI*FKQNMYPYENASSFI FG*FLYTYYLLSSEMLYIXXXXK *ISXPRXHXNTXXXFMCXKAXXE GXXXGWWVRXGGRRWCGGGGGGX GDXXVMGALXXGGGAGG

Human OBRGRP_v 4	6	prey51967	308	AGCTCAGCAAACAAATACAGCTGGAAGCAATGTTACTACATCATCAACTCCTAA TAGTAACTCTACATCTGGTTCTGCTACTAGCAACCCTTTTGGTTTAGGTGGCCT TGGGGGACTTGCAGGTCTGAGTAGCTTGGGTTTGAATACTACCAACTTCTCTGA ACTACAGAGTCAGATGCAGCGACAACTTTTGTCTAACCCTGAAATGATGGTCCA GATCATGGAAAATCCCTTTGTTCAGAGCATGCTCTCAAATCCTGACCTGATGAG ACAGTTAATTATGGCCAATCCACAAATGCAGCAGTTGATACAGAGAAATCCAGA AATTAGTCATATGTTGAATAATCCAGATATAATGAGACAAACGTTGGAACTTGC CAGGAATCCAGCAATGATGCAGGAGATGATGAGGAACCAGGACCGAGCTTTGAG CAACCTAGAAAGCATCCCAGGGGGATATAATGCTTTAAGGCGCATGTACACAGA TATTCAGGAACCAATGCTGAGTGCTGCACAAGAGCAGTTTGGTGGTAATCCATT TGCTTCCTTGGTGAGCAATACATCCTCTGGTGAAGGTAGTCAACCTTCCCGTAC AGAAAATAGAGATCCACTACCCAATCCATGGGCTCCACAGACTTCCCAGAGTTC ATCAGCTTCCAGCGGCACTGCCAGCACTGTGGGTGGCACTACTGGTAGTACTGC CAGTGGCACTTCTGGGCAGAGTACTACTGCGCCAAATTTGGTGCCTGGAGTAGG AGCTAGTATGTTCAACACACCAGGAATGCAGAGCTTGTTGCAACAAATAACTGA AAACCCACAAC	1046	AQQTNTAGSNVTTSSTPNSNSTS GSATSNPFGLGGLGGLAGLSSLG LNTTNFSELQSQMQRQLLSNPEM MVQIMENPFVQSMLSNPDLMRQL IMANPQMQQLIQRNPEISHMLNN PDIMRQTLELARNPAMMQEMMRN QDRALSNLESIPGGYNALRRMYT DIQEPMLSAAQEQFGGNPFASLV SNTSSGEGSQPSRTENRDPLPNP WAPQTSQSSSASSGTASTVGGTT GSTASGTSGQSTTAPNLVPGVGA SMFNTPGMQSLLQQITENPQ
Human OBRGRP_v 4	6	prey98736	309	AATTATAAAGGAATGTTTTTTCCCAATTTAGACAGATTACTAGGATAAAAGAGC ANATNTTTTTNATTTNCATGGTNGGAAACTGAGGGGGGGAAAAAACATTCCTTT NTNATTGGGAATNATGCTAGGTGGGNGNGGGNNTNNNCNGTGGNGGGGCGGNCT GTNNGTGGTGGGTNGTGGGGNCCACGGGGGGGGGGNNNGTGGGGGGNNGGGGNG CNCGNTNTGTNGGTGTGNNGNGTTTTTTCGGGGGNNCCCNGNCGNNGGTGGGGN GGCCCTGCCCCCCGCNGNNTTCNCNCCNNGNCNTAGNGTNNNGNCCCGNNGGCG NGNGGNGGGGNGGNGGGNGGGTGNTGNNGGNCCNCGNCGNNG	1047	NYKGMFFPNLDRLLG*KSXXFXF XWXETEGGKKHSFXIGNXARWXX XXXVXGRXVXGGXWGPRGGGXWG XGXXXXXVXXVFSGXPXRXWGGP APRXXXXXX*XXXPXAXGGXXGG XXXXXXX
Human OBRGRP_v 4	6	prey98738	310	GCGNGTGCGCCTTNNTGCTCANCCTACTTTTCTTATNTNCACCATTAAGNAGAN NNNCANATGGNANTANATTCACTCANTTGNTAAAACAAATTNTTGNTCCAGTAG ANGNANCACCTAACTGAATATTGGNNNCNNNTCTGTTATTTTGGAAGTGAATCC TGCTTCAGATGGAGCCTNNGGTGAGACCTCATCTCTNAACACATNTGGAAACGC NGNTGGGGGGTCGGACATGGGTCTNNCGCTGGGGGNAGCGGGGGGGNTGNTNGG GNCCTGGGGAGGGGGGGAGGAGGGGNANNGNC	1048	AXAPXCSXYFSYXHH*XXXXMXX XSLXX*NKXLXQ*XXHLTEYWXX XCYFGSESCFRWSLX*DLISXHX WKRXWGVGHGSXAGGSGGXXXXL GRGGGGXX
Human OBRGRP_v 4	6	prey98741	311	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGCTGGGTTCAAAGTC CTGANCTTNAGGTGATCCATTGCCCTCAGCTTNCCCAAANTGCTGGGANTTACN GGGTGTTGAGCCAGCNTNGCCCGGGCCAAACTTTTTTTNTTTTTTTGTNNGGNG AANNNNTCCGCCNGGGNTTTTNTTNNGNNGGGTNNNGCGNNNGGGGGNGGNGNG CNGANNTTGNGGGNTNNGTTGNGNNGAAGTNNGNAGGGTNGNG	1049	XXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXAGFKVLXXR*SIALS XPKXLGXTGC*ASXARAKLFXFF CXXXXSAXXFXXXGXAXGGGXXX LXXXLXXSXXGX
Human OBRGRP_v 4	6	hgx33	312	CCAGACGGCTGCCCTTCAAGTACCAACCCTGGTGGCAGCAGTGGGACCATTCT GACCACAATGCCTGTAATGATGGGGCAAGAGAAAGTGCCCATTAAGCAGGTACC TGGGGGAGTCAAGCAGCTTGAGCCCCCCAAAGAAGGAGAAAGGCGGACAACCCA TAATATCATTGAGAAACGATATCGCTCCTCCATCAATGACAAAATCATCGAATT	1050	QTAALQVPTLVGSSGTILTTMPV MMGQEKVPIKQVPGGVKQLEPPK EGERRTTHNIIEKRYRSSINDKI IELKDLVMGTDAKMHKSGVLRKA

				GAAAGACCTGGTCATGGGGACAGACGCCAAGATGCACAAGTCTGGCGTTCTGAGGAAGGCCATTGATTACATCAAATACTTGCAGCAGGTCAATCATAAACTGCGCCAGGAGAACATGGTGCTGAAGCTGGCAAATCAAAAGAACAAGCTTCTAAAGGGCATCGACCTAGGCAGTCTGGTGGACAATGAGGTGGACCTGAAGATCGAGGACTTTAATCAGAATGTCCTTCTGATGTCCCCCCCAGCCTCTGACTCAGGGTCCCAGGCTGGCTTCTCTCCCTACTCCATTGACTCTGAGCCAGGAAGCCCTCTATTGGATGATGCAAAGGTCAAAGATGAGCCAGACTCTCCTCCTGTGGCGCTGGGCATGGTAGACCGCTCACGGATTCTTCTGTGTGTCCTCACCTTCCTGTGCCTCTCCTTTAACCCCCTGAC		IDYIKYLQQVNHKLRQENMVLKLANQKNKLLKGIDLGSLVDNEVDLKIEDFNQNVLLMSPPASDSGSQAGFSPYSIDSEPGSPLLDDAKVKDEPDSPPVALGMVDRSRILLCVLTFLCLSFNPL
Human OBRGRP_v 4	6	prey98753	313	TCTTGNCTTTCGTATNCTNTNACNACANACTNCTGTGNATTCCTGATTTTTGACTGNCTCCACATNTTTGCCTTTTNCAGANTACTGGTGNTAATTATNCAAAGATGTGTAATCNTTTTCATATNGGCTTCTTNTCATAAGTGTCTTTTCNTGGNTTGNTNGNTTGAAAACTNTTGGCNGNTTNTGGATAAAGCTGNCNTANACATTGATATTCCGGCTGTTGGGGGGATGGCTNGNGNTCCCGNGGNGCTCCNGGNGGNNGCGCGCCCGGGNNGCGGGGGNGNGNGGNGNGNNGGNNNGNGNGGNT	1051	SXLSYXXTTXXCXFLIF*LXPHXCLXQXTGXNYXKMCNXFHXGFXS*VSFXGLXX*KLLAXXG*SXXXH*YSGCWGDGXXSRGAPGGXAPGXRGXXXXXXXX
Human OBRGRP_v 4	6	prey98755	314	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTNCANGGATGGTNTGNNTCTGGNGGGGGNGGNGGNTGTGGCNGTGGTGGGGGGGNTGNTTGTTNNGTNGGNTNTGGGGGGGAGGGGGCNNNNNTGNNGCGTNGGGGGGNNGNCNGGGTNGTNNNGGCCNGNNGCGGNGGNGANTGNNTNNGANNTCGCCNGANCNGNTNCCCTTGGNANTNTGNTNGCACNGGGGGACGNGNGGGGNGGGCGGGGGNNGGGAGTGTGGNCGCNGNCNNGNNNCGCC	1052	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXDGXXLXGXXXVGXGGGGXLXXXXWGGGGXXXAXGGXXGXXGXXRXXXXXXSPXXXPLXXXXHXGTXGXGGGXECGRXXXX
Human OBRGRP_v 4	6	prey98775	315	ATACCTATTACCACCTTTGGAAAATCTTAGTTGGGAAACACTGCTCTGTAACATATATCAAACGTCAGTACATTTGAAATAAATGGTATGAATGGCCTCCTCAGACAAGGAGCTTAGCAGACCAAAAGAGAAAAATGCTGACAATCTACTGTTTAAGTTTTGTATTTTTTTATTGAATCATTTGTTCCTTCATGTATTCAATAACCATTTATCATTTACTGTATTCAAGGTACATCCTTATTCCTTTTAAAAATTTAAGGGTAGCTTTATGAATAGAAAGTTTAGAGATTCTAACATAAATGGCTAAAATCTCCAGCTCTTTGTTTCACATCTATAAAAAATTTTCTGAGTTTCATGGGAAGATAAACTTTTATTTCCAAAAGGAACTTCAAAGTTATATGAAGATAAAAGAAGAGGTACAGTGAGTGAACTGGAGTAATATTTGGCAATAACCTGCCAGAGAGCTCATCTGAATTAGAAAGAACTCTGATAAGGAATCTCTTATAGTTTTAAGTCCACAGAAG	1053	IPITTFGKS*LGNTAL*HISNVSTFEINGMNGLLRQGA*QTKREKC*QSTV*VLYFFIESFVPSCIQ*PFIIYCIQGTSLFLLKI*G*LYE*KV*RF*HKWLKSPALCFTSIKNFLSFMGR*TFISKRNFKVI*R*KKRYSE*TGVIFGNNLPESSSELERTLIRNLL*F*VHR
Human OBRGRP_v 4	6	prey98786	316	CCCTTNNNNGTATTCTGGGACTACAGGTGTGTGNCTGCACGACTCNGCTACTTTTTGNATTNTTTTNGTAGAGANGGNGTTNANCCANGTTGCTNTCGCNGNCAGTGNCAACTNTTNGTCCCACTANGACTGACACTCCTTTGCCTCTTNTATNTTCTGTATTATTTACNTNAGCNGCTGCTTTCTNTCTTAACNTTCTTNTTTGTTTNTATTCAAAAATGTATTCATCNTATTTAACCTNCNTNNNAANTTCTTNTATTANGTNNTCAATNANTCAAATATAC	1054	PXXVFWDYRCVXARLXYFLXXFXRXGVXPXCXRXQXQLXVPLXLTLLCLXYXLYYLXXXLLSXLTFXFVXIQKCIHXI*PXXXXLXLXXQXXKY

Human OBRGRP_v 4	6	prey98793	317	CNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNACCAANAATGGTCTCGATNTNCTG NCCTGGTGNTNCAGCCGNNTGGGGNTGNNANAANGGTAGGNTNGCGGGTGNGGN GNGCTGTGGNCNGGGGGGNGTTTGGCCNTNGNGGNNGTGGGAGGTGGAGNGGTG NGGGNGGNGGAGGGGGGNNGGGCGNGGGGNNGGGGGNCNGAGGNNTNNGTGCNC GCGNGNGCCCGNNCNGGCTTGNTGNNGTTNGNGACNNG	1055	XXXXXXXXXXXXXXXXXXXXX XXXXXTXNGLDXLXWXXSRXGXX XX*XXGXGXLWXGGXLAXXXVGG GXVXXXEGGXAXGXGXEXXVXAX ARXGLXXXXT
Human OBRGRP_v 4	6	prey84331	318	GACGAAAAAGGCATCTTGTCTGTTAACCACAGCTTGCTTTAATAGAATCCTGGG AGGGTGATTGGGACTTTTTAGTATTACAACCTTAGTGTCATTGAGGAGGATTTT GGTCTAGTTAGTGGGCTGAGTTTCATATACCTCTCCCTCCATGTGCAGGTTTGT TAAGATAATTGGTAGTTTTTAATAATATAAAATACTTAAGTTGAAATACAAAAG TGTGGCAACAATTATTAAATATTGGCTAGAATTCTAGGAGAGTTACACAACTAG TGGAAGTCCATGTTTAGAAAATAAATGGCTTGTTTAAGGAAAAGTTTTTGTGTC CAAAGCTCCTTAAAGTCAGAGAGATTTCTACCTGGTACTTAACATCATATGGAA ATTGATGCTTTAGTGAGGGTGTTGGCTATCCTATTGTCAATTTCCTGCATCCTT TTTTCTTCTTTATTTTTGTATAGAGACAAGGTCTCGCTATGTTGCCCAGGCTGG TCTTGTTCCTGGGCTCAAGCAGTCCTCCCGCCTCGGTCTCCCAAAGTGCCGGGA TTACAGGTGTGAGCCACTGTGCCCAGCTTATCCTTTTTTCATTACACAAAAAGA CTGAATTTGGTTAGTTCTAAGTTGGAAGATAAAGATGGTATGCACAGGAGGCCC TTGGGAGCCCTCAGATAACTTTCTCATTCTTCCAAAATCAGGCTGGGATGCATT CTGTAAATTTTCCCTGCCTAGGATGTATACCTGAGGAATAAGGTAAGGAAGATG TCAGCAAGTCAGCCTCTGGTTTACCTGCTAGCTGGCATGGATCCTTAAGGAAGC AGGA	1056	DEKGILSVNHSLL**NPGRVIGT F*YYNLSVIEEDFGLVSGLSFIY LSLHVQVC*DNW*FLII*NT*VE IQKCGNNY*ILARILGELHN*WK SMFRK*MACLRKSFCVQSSLKSE RFLPGT*HHMEIDALVRVLAILL SISCILFSSLFLYRDKVSLCCPG WSCSWAQAVLPPRSPKVPGLQV* ATVPSLSFFHYTKRLNLVSSKLE DKDGMHRRPLGALR*LSHSSKIR LGCIL*IFPA*DVYLRNKVRKMS ASQPLVYLLAGMDP*GSR
Human Melatoni n 1a receptor _v4	7	prey94565	319	GGCCCCTTTGAATGTATCTTTCTTTCCAGAGTCAACCAGAGGCAAAGCCAGATT GAGGGTTCCCAGGCTGACAAATGTCTGCTGCCTCTGCCACAGGAGAGAGAAGGG GAAAGAGGGCAAAAGAAACAAAGACATCACGCGTTGCAAGTGGCTGGACTTTTA AAAACCTACCTTTGCCTCCAGGGTTTTCTAGGTTACTGTCACCCCACTTCCTAA AAAGTGTCTCCCCCCTCATCCTATTTAAGACCTGATGCAGTCTCCCCACTGGTT CTCCCAGGGAAAGAAAAGGGGAAATGTTTTTGTTGAAAATNANAGGGATGACNA GAAAANAAAGGAANAAANGCTTTGGTTTCNTCCCCTAATTTATAATCCAAGAGG CCCCCCNNTTTGTTTNTTTTTTNNCTT	1057	GPFECIFLSRVNQRQSQIEGSQA DKCLLPLPQEREGERGQKKQRHH ALQVAGLLKTYLCLQGFLGYCHP TS*KVSPPSSYLRPDAVSPLVLP GKEKGKCFC*KXXG*XEXKGXXA LVSSPNL*SKRPPXLFXFXL
Human Melatoni n 1a receptor _v4	7	prey94567	320	TCCCCTAATATGTCTGCTAGGGCCAATAATCATGAAAGCAACAAAGGGTATAAA GAGAGATCAGAAGTACAGCACCAAAAAAAAAAAAAANNAGNNTTNNTTTTNAANN AGCCCTTTTTGGGNTTTTTTTTAAANTTNNNAANNNGNCGGNNTNNCCCTTTTC CCNTTTTTTNATTTGGGAANTTTTTGNCCCTTTTAACNTTTNTAANNNTTTTNG NNNNTNTTNCCGGNGNCNTTTTTTTTTTGAAAAANAANTCCCAATTGGGCNTTT TGGGGGNTAAAGGGGCCAAAANTNCTTTNCCCAANGGNGGGGGAAATTTTTAAT CCCCCCCCCCCCCCCTTNGGGGGGNTACCAAACTTNAGAAATTTTTCNAANTTT TTCCAAAANNNGGGGNNNCAAAAAANTNTTTTTNT	1058	SPNMSARANNHESNKGYKERSEV QHQKKKXXXXFXXSPFWXFF*XX XXXGXXLFPFFXLGXFXPF*XX* XFXXXXPXXFFF*KXXPNWAFWG XKGPKXLXPXXGEIFNPPPPPXG GXPNXRNFSXFFQXXGXQKXXF
Human	7	prey15008	321	CAGAAAAATCTTGAACCAGCTCTCCCAGGAAGATGGGGTGGTCGCTCTGCAGAG	1059	QKNLEPALPGRWGGRSAENPPSG

Melatonin 1a receptor _v4				AACCCCCCTTCAGGATCCGTGAGGAAGACCAGAAAGAACAAGCAGAAGACTCCT GGAAACGGAGATGGTGGCAGTACCAGCGAAGCACCTCAGCCCCCTCGGAAGAAA AGGGCCCGGGCAGACCCCACTGTTGAAAGTGAGGAGGCGTTTAAGAATAGAATG GAGGTTAAAGTGAAGATTCCTGAAGAATTAAAACCATGGCTTGTTGAGGACTGG GACTTAGTTACCAGGCAGAAGCAGCTGTTTCAACTCCCTGCCAAGAAAAATGTA GATGCAATTCTGGAGGAGTATGCAAATTGCAAGAAATCGCAGGGAAATGTTGAT AATAAGGAATATGCGGTTAATGAAGTTGTGGCAGGAATAAAAGAATATTTCAAT GTGATGTTGGGCACTCAGCTGCTCTACAAATTTGAGAGGCCCCAGTATGCTGAA ATCCTCTTGGCTCACCCTGATGCTCCAATGTCCCAGGTTTATGGAGCACCACAC CTACTGAGATTATTTGTAAGAATTGGAGCAATGTTGGCCTATACGCCCCTTGAT GAGAAAAGCCTTGCATTATTGTTGGGCTATTTGCATGATTTCCTAAAATATCTG GCAAAGAATTCTGCATCTCTCTTTACTGCCAGTGATTACAAAGTGGCTTCTGCT GAGTACCACCGCAAAGCCCTGTGA		SVRKTRKNKQKTPGNGDGGSTSE APQPPRKKRARADPTVESEEAFK NRMEVKVKIPEELKPWLVEDWDL VTRQKQLFQLPAKKNVDAILEEY ANCKKSQGNVDNKEYAVNEVVAG IKEYFNVMLGTQLLYKFERPQYA EILLAHPDAPMSQVYGAPHLLRL FVRIGAMLAYTPLDEKSLALLLG YLHDFLKYLAKNSASLFTASDYK VASAEYHRKAL*
Human Melatonin 1a receptor _v4	7	prey94569	322	ATGAGGAGAAGTGAGGTGCTGGCGGAGGAGTCCATAGTATGTCTGCAGAAAGCC CTAAATCACCTTCGGGAAATATGGGAGCTAATTGGGATTCCAGAGGACCAGCGG TTACAAAGAACTGAGGTGGTAAAGAAGCATATCAAGGAACTCCTGGATATGATG ATTGCTGAAGAGGAAAGCCTGAAGGAAAGACTCATCAAAAGCATATCCGTCTGT CAGAAAGAGCTGAACACTCTGTGCAGCGAGTTACATGTTGAGCCATTTCAGGAA GAAGGAGAGACGACCATCTTGCAACTAGAAAAAGATTTGCGCACCCAAGTGGAA TTGATGCGAAAACAGAAAAAGGAGAGAAAACAGGAACTGAAGCTACTTCAAGAG CAAGATCAAGAACTGTGCGAAATTCTTTGTATGCCCCACTATGATATTGACAGT GCCTCAGTGCCCAGCTTAGAAGAGCTGAACCAGTTCAGGCAACATGTGACAACT TTGAGGGAAACAAAGGCTTCTAGGCGTGAGGAGTTTGTCAGTATAAAGAGACAG ATCATACTGTGTATGGAAGCATTAGACCACACCCCAGACACAAGCTTTGAAAGA GATGTGGTGTGTGAAGACGAAGATGCCTTTTGTTTGTCTTTGGAGAATATTGCA ACACTACAAAAGTTGCTACGGCAGCTGGAAATGCAGAAATCACAAAATGAAGCA GTGTGTGAGGGGCTGCGTACTCAAATCCGAGAGCTCTGGGACAGGTTGCAAATA CCTGAAGAAGAAAGAGAAGCTGTGGCCACCATTATGTCTGGGTCAAAGGCCAAG GTCCGGAAAGCGCTGCAATTAGAAGTGGATCGGTTGGAAGAACTGAAAATGCAA AACATGAAGAAAGTGATTGAGGCAATTCGAGTGGAGCTGGTTCAGTACTGGGAC CAGTGCTTTTATAGCCAGGAGCAGAGACAAGCTTTTGCCCCTTTCTGTGCTGAG GACTACACAGAAAGTCTGCTCCAGCTCCACGATGCTGAGATTGTGCGGTTAAAA AACTACTATGAAGTTCACAAGGAACTCTTTGAAGGTGTCCAGAAGTGGGAAGAA ACCTGGAGGCTTTTCTTAGAGTTTGAGAGAAAAGCTTCAGATCCAAATCGATTT ACAAACCGAGGAGGAAATCTTCTAAAAGAAGAAAAACAACGAGCCAAGCTCCAG AAAATGCTGCCCAAGCTGGAAGAAGAGTTGAAGGCACGAATTGAATTGTGGGAA CAGGAACATTCAAAGGCATTTATGGTGAATGGGCAGAAATTCATGGAGTATGTG GCAGAACAATGGGAGATGCATCGATTGGAGAAAGAGAGAGCCAAGCAGGAAAGA CAACTGAAGAACAAAAAACAGACAGAGACAGAGATGCTGTATGGCAGCGCTCCT	1060	MRRSEVLAEESIVCLQKALNHLR EIWELIGIPEDQRLQRTEVVKKH IKELLDMMIAEEESLKERLIKSI SVCQKELNTLCSELHVEPFQEEG ETTILQLEKDLRTQVELMRKQKK ERKQELKLLQEQDQELCEILCMP HYDIDSASVPSLEELNQFRQHVT TLRETKASRREEFVSIKRQIILC MEALDHTPDTSFERDVVCEDEDA FCLSLENIATLQKLLRQLEMQKS QNEAVCEGLRTQIRELWDRLQIP EEEREAVATIMSGSKAKVRKALQ LEVDRLEELKMQNMKKVIEAIRV ELVQYWDQCFYSQEQRQAFAPFC AEDYTESLLQLHDAEIVRLKNYY EVHKELFEGVQKWEETWRLFLEF ERKASDPNRFTNRGGNLLKEEKQ RAKLQKMLPKLEEELKARIELWE QEHSKAFMVNGQKFMEYVAEQWE MHRLEKERAKQERQLKNKKQTET EMLYGSAPRTPSKRRGLAPNTPG KARKLNTTTMSNATANSSIRPIF GGTVYHSPVSRLPPSGSKPVAAS TCSGKKTPRTGRHGANKENLELN GSILSGGYPGSAPLQRNFSINSV ASTYSEFAKDPSLSDSSTVGLQR

				CGAACACCTAGCAAGCGGCGAGGACTGGCTCCCAATACACCGGGCAAAGCACGTAAGCTGAACACTACCACCATGTCCAATGCTACGGCCAATAGTAGCATTCGGCCTATCTTTGGAGGGACAGTCTACCACTCCCCGTGTCTCGACTTCCTCCTTCTGGCAGCAAGCCAGTCGCTGCTTCCACCTGTTCAGGGAAGAAAACACCCCGTACTGGCAGGCATGGAGCCAACAAGGAGAACCTGGAGCTCAACGGCAGCATCCTGAGTGGTGGGTACCCTGGCTCGGCCCCCCTCCAGCGCAACTTCAGCATTAATTCTGTTGCCAGCACCTATTCTGAGTTTGCGAAGGATCCGTCCCTCTCTGACAGTTCCACTGTTGGGCTTCAGCGAGAACTTTCAAAGGCTTCCAAATCTGATGCTACTTCTGGAATCCTCAATTCAACCAACATCCAGTCCTGA		ELSKASKSDATSGILNSTNIQS*
Human Melatonin 1a receptor_v4	7	prey3671	323	ATGGAGTCTGGCAGTACCGCCGCCAGTGAGGAGGCACGCAGCCTTCGAGAATGTGAGCTCTACGTCCAGAAGCATAACATTCAAGCGCTGCTCAAAGATTCTATTGTGCAGTTGTGCACTGCTCGACCTGAGAGACCCATGGCATTCCTCAGGGAATACTTTGAGAGGTTGGAGAAGGAGGAGGCAAAACAGATTCAGAATCTGCAGAAAGCAGGCACTCGTACAGACTCAAGGGAGGATGAGATTTCTCCTCCTCCACCCAACCCAGTGGTTAAAGGTAGGAGGCGACGAGGTGCTATCAGCGCTGAGGTCTACACGGAGGAAGATGCGGCATCCTATGTTAGAAAGGTTATACCAAAAGATTACAAGACAATGGCCGCTTTAGCCAAAGCCATTGAAAAGAATGTGCTGTTTTCACATCTTGATGATAATGAGAGAAGTGATATTTTTGATGCCATGTTTTCGGTCTCCTTTATCGCAGGAGAGACTGTGATTCAGCAAGGTGATGAAGGGGATAACTTCTATGTGATTGATCAAGGAGAGACGGATGTCTATGTTAACAATGAATGGGCAACCAGTGTTGGGGAAGGAGGGAGCTTTGGAGAACTTGCTTTGATTTATGGAACACCGAGAGCAGCCACTGTCAAAGCAAAGACAAATGTGAAATTGTGGGGCATCGACCGAGACAGCTATAGAAGAATCCTCATGGGAAGCACACTGAGAAAGCGGAAGATGTATGAGGAATTCCTTAGTAAAGTCTCTATTTTAGAGTCTCTGGACAAGTGGGAACGTCTTACGGTAGCTGATGCATTGGAACCAGTGCAGTTTGAAGATGGGCAGAAGATTGTGGTGCAGGGAGAACCAGGGGATGAGTTCTTCATTATTTTAGAGGGGTCAGCTGCTGTGCTACAACGTCGGTCAGAAAATGAAGAGTTTGTTGAAGTGGGAAGATTGGGGCCTTCTGATTATTTTGGTGAAATTGCACTACTGATGAATCGTCCTCGTGCTGCCACAGTTGTTGCTCGTGGCCCCTTGAAGTGCGTTAAGCTGGACCGACCTAGATTTGAACGTGTTCTTGGCCCATGCTCAGACATCCTCAAACGAAACATCCAGCAGTACAACAGTTTTGTGTCACTGTCTGTCTGA	1061	MESGSTAASEEARSLRECELYVQKHNIQALLKDSIVQLCTARPERPMAFLREYFERLEKEEAKQIQNLQKAGTRTDSREDEISPPPPNPVVKGRRRRGAISAEVYTEEDAASYVRKVIPKDYKTMAALAKAIEKNVLFSHLDDNERSDIFDAMFSVSFIAGETVIQQGDEGDNFYVIDQGETDVYVNNEWATSVGEGGSFGELALIYGTPRAATVKAKTNVKLWGIDRDSYRRILMGSTLRKRKMYEEFLSKVSILESLDKWERLTVADALEPVQFEDGQKIVVQGEPGDEFFIILEGSAAVLQRRSENEEFVEVGRLGPSDYFGEIALLMNRPRAATVVARGPLKCVKLDRPRFERVLGPCSDILKRNIQQYNSFVSLSV*
Human Melatonin 1a receptor_v4	7	prey94572	324	GCTCACATTCTTTCATTCTTGGCTCCCCTGGCACTTCCTGAATGGAACCCACTCTGATCTTATTTAAAATTACACTTTGCTTTCACTGGCAGCTCAGCCCCCAAAAGCTCCTTCCCTGTTTTCTCAACATGGCAATTATTACCTTCTAACATACTCTATAATTTATGTATTTGTTTTTGTTTGTTGTCTGTCTCCTGCCAATAGAATGTAAGAAACACAGNTACAGGGATTTTTGTGTNTTTTATTNACNGTGATATTTGTAGTTTNGAAAATNGAGNCTGNCATTGTNNGNGGGNNCTNANCGGATNTTTGNTTGGNAGGAAAGATTAATGAAGAAGGNTGAAAGNATGAGGGANGGAAAGATGAGATGGGGGATNNNACNCNNANNNNNNNANATNGNNATGNNNNNNTATGGGNGGGGNGGGGGG	1062	AHILSFLAPLALPEWNPL*SYLKLHFAFTGSSAPKSSFPVFSTWQLLPSNILYNLCICFCLLSVSCQ*NVRNTXTGIFVXFIXXDICSXENXXXHCXXXLXGXLXGRKD**RRXKX*GXER*DGGXXXXXXXXMXXYGXGGG

Human Melatonin 1a receptor _v4	7	prey92602	325	CCGCAAAGTGAACGAGCTTCGGGCCTTTGTGAAAATGTGTAAGCAGGATCCGAGCGTTCTGCACACCGAGGAAATGCGCTTCCTGAGGGAGTGGGTGGAGAGCATGGGTGGTAAAGTACCACCTGCTACTCAGAAAGCTAAATCAGAAGAAAATACCAAGGAAGAAAAACCTGATAGTAAGAAGGTGGAGGAAGACTTAAAGGCAGACGAACCATCAAGTGAGGAAAGTGATCTAGAAATTGATAAAGAAGGTGTGATTGAACCAGACACTGATGCTCCTCAAGAAATGGGAGATGAAAATGCGGAGATAACGGAGGAGATGATGGATCAGGCAAATGATAAAAAAGTGGCTGCTATTGAAGCCCTAAATGATGGTGAACTCCAGAAAGCCATTGACTTATTCACAGATGCCATCAAGCTGAATCCTCGCTTGGCCATTTTGTATGCCAAGAGGGCCAGTGTCTTCGTCAAATTACAGAAGCCAAATGCTGCCATCCGAGACTGTGACAGAGCCATTGAAATAAATCCTGATTCAGCTCAGCCTTACAAGTGGCGGGGAAAGCACACAGACTTCTAGGCCACTGGGAAGAAGCAGCCCATGATCTTGCCCTTGCCTGTAAATTGGATTATGATGAAGATGCTAGTGCAATGCTGAAAGAAGTTCAACCTAGGGCACAGAAAATTGCAGAACATCGGAGAAAGTATGAGCGAAAACGTGAAGAGCGAGAGATCAAAGAAAGAATAGAACGAGTTAAGAAGGCTCGAGAAGAGCATGAGAGAGCCCAGAGGGAGGAAGAAGCCAGACGACAGTCAGGAGCTCAGTATGGCTCTTTTCCAGGTGGCTTTCCTGGGGGAATGCCTGGTAATTTTCCCGGAGGAATGCCTGGAATGGGAGGGGGCATGCCTGGAATGGCTGGAATGCCTGGACTCAATGAAATTCTTAGTGATCCAGAGGTTCTTGCAGCCATGCAGGATCCAGAAGTTATGGTGGCTTTCCAGGATGTGGCTCAGAACCCAGCAAATATGTCAAAATACCAGAGCAACCCAAAGGTTATGAATCTCATCAGTAAATTGTCAGCCAAATTTGGAGGTCAAGCGTAA	1063	RKVNELRAFVKMCKQDPSVLHTEEMRFLREWVESMGGKVPPATQKAKSEENTKEEKPDSKKVEEDLKADEPSSEESDLEIDKEGVIEPDTDAPQEMGDENAEITEEMMDQANDKKVAAIEALNDGELQKAIDLFTDAIKLNPRLAILYAKRASVFVKLQKPNAAIRDCDRAIEINPDSAQPYKWRGKAHRLLGHWEEAAHDLALACKLDYDEDASAMLKEVQPRAQKIAEHRRKYERKREEREIKERIERVKKAREEHERAQREEEARRQSGAQYGSFPGGFPGGMPGNFPGGMPGMGGGMPGMAGMPGLNEILSDPEVLAAMQDPEVMVAFQDVAQNPANMSKYQSNPKVMNLISKLSAKFGGQA*
Human Melatonin 1a receptor _v4	7	prey3684	326	CCAGCAACTACATCTGCTCCTTCAAGTGGTTTTGGAACCGGGCTCTTTGGATCTAAACCTGCCACTGGGTTCACTCTAGGAGGAACAAATACAGGAATAGCAACAACTATAACTACAGGATTAACTCTGGGAACGCCAGCCACTACATCTGCAGCTACAACAGGCTTCAGTTTAGGATTCAATAAACCTGCAGCATCTGCCACACCATTTGCTCTACCTATTACCTCTACCTCAGCTAGCGGTCTGACTCTTTCGTCTGCTCTGACATCAACTCCAGCAGCATCCACAGGATTTACTCTAAATAATTTGGGTGGGACAACAGCCACAACTACAACTGCATCAACAGGCCTCTCTTTAGGGGGAGCCTTAGCTGGTTTGGGAGGTTCACTTTTCCAGAGTACAAACACAGGAACATCAGGACTTGGACAGAATGCTTTAGGGTTGACTTTGGGAACTACAGCAGCTACTTCAACTGCAGGCAATGAAGGCCTTGGTGGTATAGATTTCAGTAGCTCCTCAGATAAAAAGAGTGATAAAACGGGAACAAGACCAGAGGATAGTAAAGCTCTGAAGGATGAAAATCTACCTCCTGTCATCTGCCAGGATGTTGAAAATCTCCAGAAATTTGTGAAGGAGCAGAAACAAGTTCAAGAAGAAATTAGTAGAATGTCTTCAAAAGCAATGCTTAAGGTACAAGAAGATATTAAAGCTCTGAAGCAGCTCCTGTCGTTGGCTGCCAATGGAATACAGAGAAACACTCTCAACATTGACAAATTGAAAATAGAAACTGCTCAGGAGTTGAAGAATGCTGAAATAGCTTTAAGAACCCAGAAGACACCACCTGGACTTCAACATGAATATGCAGCTCCTGCTGACTACTTCAGAATCTTGGTTCAGCAATTTGAGGTACAGCTTCAGCAGTACAGGCAGCAGATTGAAGAACTAGAAAACCATCTTGCCACTCAAGCAAAT	1064	PATTSAPSSGFGTGLFGSKPATGFTLGGTNTGIATTITTGLTLGTPATTSAATTGFSLGFNKPAASATPFALPITSTSASGLTLSSALTSTPAASTGFTLNNLGGTTATTTASTGLSLGGALAGLGGSLFQSTNTGTSGLGQNALGLTLGTTAATSTAGNEGLGGIDFSSSSDKKSDKTGTRPEDSKALKDENLPPVICQDVENLQKFVKEQKQVQEEISRMSSKAMLKVQEDIKALKQLLSLAANGIQRNTLNIDKLKIETAQELKNAEIALRTQKTPPGLQHEYAAPADYFRILVQQFEVQLQQYRQQIEELENHLATQANNSHITPQDLSMAMQKIYQTFVALAAQLQSIHENVKVLKEQYLGYRKMFLGDAVDVFETRRAEAKKWQNTPRVTTGPTPFSTMPNAAAVAM

				AATTCACATATAACCCCTCAAGATTTGTCAATGGCTATGCAGAAAATTTATCAAACATTTGTAGCTTTAGCGGCACAACTTCAGTCTATTCATGAAAATGTAAAGGTTCTGAAAGAACAGTACCTTGGCTACAGGAAAATGTTCTTGGGAGATGCTGTTGATGTGTTTGAAACAAGGCGAGCAGAAGCCAAGAAGTGGCAGAACACACCCAGAGTTACTACTGGACCCACTCCTTTCAGCACCATGCCAAACGCAGCAGCCGTTGCCATGGCTGCAACACTTACACAGCAGCAACAGCCTGCTACAGGTCTGAACGCATTCAAGTTATAG		AATLTQQQQPATGLNAFKL*
Human Melatonin 1a receptor_v4	7	prey94574	327	CGGTCTCTCTTAAAAATTCTGGACATAAGTGATGGACTGAGGCCAGAATCTCATTTTTAGTTTTTATGGTTCAAAGTTTAGAACTCTTAGTTTGAACCAGGTTTTTCCAGTCTTGGAACTACTGACATTGTATGGGGATAAGGTGAGGGGGACACTCCTGTGCACTGTATGATGTTCAGCAGCATTCCTGGCTCTACCCACTATATGCTAGCAGCATCACCTTAGTTGTGACAAGCAAAATATCCATACATTTTGCTTTGGGGGCCAAACTGCTNCTANTTNANGACCACTGNTTTNANNCCTGCTTTANTNACAGTGGNTTTGGNACATGNGGGGCGGCGNCGGGGGGGGNNGNGGNGGNGGGTGNTGGGGNGNNGGGGGNTNNNNCNTGCGGGTGNGCNNNGT	1065	RSLLKILDISDGLRPESHF*FLWFKV*NS*FEPGFSSLGTTDIVWG*GEGDTPVHCMMFSSIPGSTHYMLAASP*L*QAKYPYILLWGPNCXXXXTTXXXPALXTVXLXHXGRRRGGXXXXVXGXXGXXXAGXXX
Human Melatonin 1a receptor_v4	7	prey94575	328	CCACATCAGAGCCTCGAAGGTCCTCCGTGGCTTTTCCCTGGCCCTTTGCCATCCGTTGCCTCTGAGGACTTATTTCCTTTTCCTATACATGGCCACAGTGGTGGTTATCCTAGAAAAAAGATTTCAAGTCTGAACCCTGCTTATAGCCAATACTCCCAGAAAAGTATTGAACAGGCAGAAGAGGCTCACAAGAAAGAGCACAAACCCAAAAAGCCTGGCAAGTACATTTGCCCTTACTGCAGCAGAGCGTGTGCCAAACCTAGTGTACTGAAAAAACACATNAGGTNCCATACTGGGGAGCGGCCATATNCATGTNTACCTTGTGGNNGGTGTTTNGAGACGGGGANNGGTNGGGGGCGGGGNGCNNGGNNGNGNGNNTGGNGGT	1066	PHQSLEGPPWLFPGPLPSVASEDLFPFPIHGHSGGYPRKKISSLNPAYSQYSQKSIEQAEEAHKKEHKPKKPGKYICPYCSRACAKPSVLKKHXRXHTGERPYXCXPCGXCXETGXGXGRGAXXXXWX
Human Melatonin 1a receptor_v4	7	prey3772	329	CAGAAGGTTATTGGCACTAATAGGAAGTACTTCACCAACTGCAAGCAGTGGTACCAAAGGAAAATCTGTGGCAAATCAACAGTCATCAGCTACGAGTGCTGTCCTGGATATGAAAAGGTCCCTGGGGAGAAGGGCTGTCCAGCAGCCCTACCACTCTCAAACCTTTACGAGACCCTGGGAGTCGTTGGATCCACCACCACTCAGCTGTACACGGACCGCACGGAGAAGCTGAGGCCTGAGATGGAGGGGCCCGGCAGCTTCACCATCTTCGCCCCTAGCAACGAGGCCTGGGCCTCCTTGCCAGCTGAAGTGCTGGACTCCCTGGTCAGCAATGTCAACATTGAGCTGCTCAATGCCCTCCGCTACCATATGGTGGGCAGGCGAGTCCTGACTGATGAGCTGAAACACGGCATGACCCTCACCTCTATGTACCAGAATTCCAACATCCAGATCCACCACTATCCTAATGGGATTGTAACTGTGAACTGTGCCCGGCTCCTGAAAGCCGACCACCATGCAACCAACGGGGTGGTGCACCTCATCGATAAGGTCATCTCCACCATCACCAACAACATCCAGCAGATCATTGAGATCGAGGACACCTTTGAGACCCTTCGGGCTGCTGTGGCTGCATCAGGGCTCAACACGATGCTTGAAGGTAACGGCCAGTACACGCTTTTGGCCCCGACCAATGAGGCCTTCGAGAAGATCCCTAGTGAGACTTTGAACCGTATCCTGGGCGACCCAGAAGCCCTGAGAGACCTGCTGAACAACCACATCTTGAAGTCAGCTATGTGTGCTGAAGCCATCGTTGCGGGGCTGTCTGTAGAGACCCTGGAGGGCACGACACTGGAGGTGGGCTGC	1067	QKVIGTNRKYFTNCKQWYQRKICGKSTVISYECCPGYEKVPGEKGCPAALPLSNLYETLGVVGSTTTQLYTDRTEKLRPEMEGPGSFTIFAPSNEAWASLPAEVLDSLVSNVNIELLNALRYHMVGRRVLTDELKHGMTLTSMYQNSNIQIHHYPNGIVTVNCARLLKADHHATNGVVHLIDKVISTITNNIQQIIEIEDTFETLRAVAASGLNTMLEGNGQYTLLAPTNEAFEKIPSETLNRILGDPEALRDLLNNHILKSAMCAEAIVAGLSVETLEGTTLEVGCSGDMLTINGKAIISNKDILATNGVIHYIDELLIPDSAKTLFELAAESDVSTAIDLFRQAGLGNHLSGSERLTLLAPLNSV

				AGCGGGGACATGCTCACTATCAACGGGAAGGCGATCATCTCCAATAAAGACATC CTAGCCACCAACGGGGTGATCCACTACATTGATGAGCTACTCATCCCAGACTCA GCCAAGACACTATTTGAATTGGCTGCAGAGTCTGATGTGTCCACAGCCATTGAC CTTTTCAGACAAGCCGGCCTCGGCAATCATCTCTCTGGAAGTGAGCGGTTGACC CTCCTGGCTCCCCTGAATTCTGTATTCAAAGATGGAACCCCTCCAATTGATGCC CATACAAGGAATTTGCTTCGGAACCACATAATTAAAGACCAGCTGGCCTCTAAG TATCTGTACCATGGACAGACCCTGGAAACTCTGGGCGGCAAAAAACTGAGAGTT TTTGTTTATCGTAATAGCCTCTGCATTGAGAACAGCTGCATCGCGGCCCACGAC AAGAGGGGGAGGTACGGGACCCTGTTCACGATGGACCGGGTGCTGACCCCCCCA ATGGGGACTGTCATGGATGTCCTGAAGGGAGACAATCGCTTTAGCATGCTGGTA GCTGCCATCCAGTCTGCAGGACTGACGGAGACCCTCAACCGGGAAGGAGTCTAC ACAGTCTTTGCTCCCACAAATGAAGCCTTCCGAGCCCTGCCACCAAGAGAACGG AGCAGACTCTTGGGAGATGCCAAGGAACTTGCCAACATCCTGAAATACCACATT GGTGATGAAATCCTGGTTAGCGGAGGCATCGGGGCCCTGGTGCGGCTAAAGTCT CTCCAAGGTGACAAGCTGGAAGTCAGCTTGAAAAACAATGTGGTGAGTGTCAAC AAGGAGCCTGTTGCCGAGCCTGACATCATGGCCACAAATGGCGTGGTCCATGTC ATCACCAATGTTCTGCAGCCTCCAGCCAACAGACCTCAGGAAAGAGGGGATGAA CTTGCAGACTCTGCGCTTGAGATCTTCAAACAAGCATCAGCGTTTTCCAGGGCT TCCCAGAGGTCTGTGCGACTAGCCCCTGTCTATCAAAAGTTATTAGAGAGGATG AAGCATTAG		FKDGTPPIDAHTRNLLRNHIIKD QLASKYLYHGQTLETLGGKKLRV FVYRNSLCIENSCIAAHDKRGRY GTLFTMDRVLTPPMGTVMDVLKG DNRFSMLVAAIQSAGLTETLNRE GVYTVFAPTNEAFRALPPRERSR LLGDAKELANILKYHIGDEILVS GGIGALVRLKSLQGDKLEVSLKN NVVSVNKEPVAEPDIMATNGVVH VITNVLQPPANRPQERGDELADS ALEIFKQASAFSRASQRSVRLAP VYQKLLERMKH*
Human Melatonin 1a receptor _v4	7	prey94580	330	GTNNNANATTGTTTATNTGCTATAATCAATGAATTGTNGCTGCCTCCTGGTNTT CTTTTGANTAATGCACAANGGCTGGGCATGNTNCCACNGCTTTAAGCATTTTTA NACTNTNNGANTNNCTGGATTGTGANCAGANTCCATGNTGATCCTTAGTCAGCG TGNTCATGTAACACCACCNANNNCTNGTNNGANTACNTGTNCCCANNTCNTNGN TTCTTGCNGGCNACCCCCTCCATCTCTNNGNNCACACAACNGGTNCCANNGNAA GCTGTTTTTNNGGNTTTCCNTANCNGAGNTATGCCGTCTCTNTNTNTCGATTTN CACACNNGGAGGTTCCNAAGGCCTTTNTTTTNGTNGGAGCNTNGGNNNANCNCC CNTTNGNTNNTTTGANGAGTNGNAGNGATCNTTANGGGTTGGNAATAGTNNTTT	1068	VXXCLXAIINELXLPPGXLLXNA QXLGMXPXL*AFLXXXXXWIVXR XHXDP*SAXSCNTTXXXXXYXXP XXXFLXATPSISXXTQXVPXXAV FXXFXXXXMPSLXXDXHTXRFXR PXFXXEXXXXXXXXX*XVXXIXX GWX*XF
Human Melatonin 1a receptor _v4	7	prey94581	331	CCGGCTGTGTTAATACATTCCAAATGTATTGATTATTGTATTTCTTTCTAAAAT TCCTACTATACTCTATTTATCTCCTAAACCTACCCCTCATATCTCTTATATTT TACATATTATATTCATCTCTATCTTTTGCTTCTTGGTTTTTGGGGAACTCCTCA AAGTGGACTTTCAAATCATCAGTGTCATTTTCTGTGCTATCCAATCTGTTATTC ATTGCTACCACTTCCAGTTAAAAATTTGAAATTTAAAATTTGAATTCACAAATT TATAAGATAAATTCACATTTAATTTTTTAAATGTTTAACAGTAATATTTCTGAT ATCAGTTTGTTANTTGTGGATAGAATGAGTGCTTGAATCTCAAGGCTNNTTGNT AATATGNATNAAGGTNGTTTT	1069	PAVLIHSKCIDYCISF*NSYYTL FYLLNLPLISLIFYILYSSLSFA SWFLGNSSKWTFKSSVSFSVLSN LLFIATTSS*KFEI*NLNSQIYK INSHLIF*MFNSNISDISLLXVD RMSA*ISRLXXNMXXGXF
Human Melatonin 1a	7	prey3775	332	TCCTTATGACAGACCTGGGGCTGGTAGAGGGTATAACAGCATTGGCAGAGGAGC TGGCTTTGAGAGGATGAGGCGTGGTGCTTATGGTGGAGGCTATGGAGGCTATGA TGATTACAATGGCTATAATGATGGCTATGGATTTGGGTCAGATAGATTTGGAAG	1070	PYDRPGAGRGYNSIGRGAGFERM RRGAYGGGYGGYDDYNGYNDGYG FGSDRFGRDLNYCFSGMSDHRYG

receptor _v4				AGACCTCAATTACTGTTTTTCAGGAATGTCTGATCACAGATACGGGGATGGTGGCTCTACTTTCCAGAGCACAACAGGACACTGTGTACACATGCGGGGATTACCTTACAGAGCTACTGAGAATGACATTTATAATTTTTTTCACCGCTCAACCCTGTGAGAGTACACATTGAAATTGGTCCTGATGGCAGAGTAACTGGTGAAGCAGATGTCGAGTTCGCAACTCATGAAGATGCTGTGGCAGCTATGTCAAAAGACAAAGCAAATATGCAACACAGATATGTAGAACTCTTCTTGAATTCTACAGCAGGAGCAAGCGGTGGTGCTTACGAACACAGATATGTAGAACTCTTCTTGAATTCTACAGCAGGAGCAAGCGGTGGTGCTTATGGTAGCCAAATGATGGGAGGCATGGGCTTGTCAAACCAGTCCAGCTACGGGGGCCCAGCCAGCCAGCAGCTGAGTGGGGGTTACGGAGGCGGCTACGGTGGCCAGAGCAGCATGAGTGGATACGACCAAGTTTTACAGGAAAACTCCAGTGATTTCAATCAAACATTGCATAG		DGGSTFQSTTGHCVHMRGLPYRATENDIYNFFSPLNPVRVHIEIGPDGRVTGEADVEFATHEDAVAAMSKDKANMQHRYVELFLNSTAGASGGAYEHRYVELFLNSTAGASGGAYGSQMMGGMGLSNQSSYGGPASQQLSGGYGGGYGGQSSMSGYDQVLQENSSDFQSNIA*
Human Melatonin 1a receptor _v4	7	prey94583	333	AAACACAGATTAGTCTTTCTTTTCTTCTAGATAGAAATCTATCCCCCATTAATCCAGTTTGCAACTGAGACTTAATTTGGAGCCCAGTTCTATTATACTTCTCGAACTCAGATTTCAGGTATGTTTAGTGTAGTCCAGACAACTCACTGGTATTCCCTTCCTTCTGTATCAAGCATCAATATCTTTGACCTTTTCAGAGTTACGTGACCTAACAGTTGTGACTATAAGAATTGTATGTATCATTGATAACACTCAGAAGGCAGATGATTGGTTTTTCACTTCATAGCCAATGAACACTTCAGAGTTGNTGGTGGATAACTNTTNTAGCCCAGAGGTTGTTTAAATACTCNACTGGGGAAGGNNTTNGGGNGTGTGGNGNGNCCCCNAAGGGGCGGGNCN	1071	KHRLVFLFF*IEIYPPLIQFATET*FGAQFYYTSRTQISGMFSVVQTTHWYSLPSVSSINIFILFRVT*PNSCDYKNCMYH**HSEGR*LVFHFIANEHFRVXGG*LX*PRGCLNTXLGKXXGXVXXPXRGGX
Human Melatonin 1a receptor _v4	7	prey94584	334	ACCCTTTTACTTAGGAAATTGAAGCTCAAGAAGGTGAAGATGATACCTTTCTAACAGCCCAAGATGGTGAGGAAGAAGAAAATGAGAAAGATATAGCAGGTTCTGGTGATGGTACACAAGAAGTATCTAAACCTCTTCCTTCAGAAGGGAGCCTAGCTGAGGCTGATCACACAGCTCATGAAGAGATGGAAGCTCATACGACTGTGAAAGAAGCTGAGGATGACAACATCTCGGTCACAATCCAGGCTGAAGATGCCATCACTCTGGATTTTGATGGTGATGACCTCCTAGAAACAGGTAAAAATGTGAAAATTACAGATTCTGAANCAAGTNAGCCAAAAGATGGGCAGGACGNCNTTGCACAGANCCCCGGNNNANGNAANCNNGGGTTNTGANATGATGCNANCCNT	1072	TLLLRKLKLKKVKMIPF*QPKMVRKKKMRKI*QVLVMVHKKYLNLFLQKGA*LRLITQLMKRWKLIRL*KKLRMTTSRSQSRLKMPSLWILMVMTS*KQVKM*KLQILXQVSQKMGRTXLHRXPXXXXXGXXMMXX
Human Melatonin 1a receptor _v4	7	prey78471	335	ATGGGAAACACGAGCTTCAATGAGGTCATGGAGGCCCAGCTACCCTCACACGGCGGCCCTAAACCCTCAGCTGAGAGTGACATGGGCACCCGCAGGGACTACATTATGGCCAAGTATGTGGAGCATAGGTTTGCACGCCGGTGCACACCTGAGCCTCAGCGACTCTGGACAGCCATTTGCAACAGGGACCTCCTGTCGGTACTGGAGGCCTTTGCCAATGGGCAGGACTTTGGACAGCCGCTGCCAGGGCCTGATGCACAGGCACCTGAAGAACTCGTCTTGCATTTGGCTGTCAAAGTCGCCAACCAGGCTTCCCTGCCTCTGGTGGATTTCATCATCCAGAACGGTGGTCACCTGGATGCCAAGGCTGCTGACGGGAACACGGCTCTGCACTACGCAGCACTCTACAACCAGCCCGACTGCCTCAAGCTGCTGCTGAAGGGGAGAGCTTTGGTTGGCACAGTAAATGAAGCAGGCGAGACAGCTCTGGACATAGCCAGGAAGAAGCACCACAAGGAGTGTGAGGAGCTGCTGGAGCAGGCCCAGGCGGGGACCTTTGCCTTCCCTCTACATGTGGACTACTCCTGGGTAATTTCCACAGAGCCTGGCTCTGACAGTGAGGAGGATGAGGAAGAGAAGCGCTGCTTG	1073	MGNTSFNEVMEAQLPSHGGPKPSAESDMGTRRDYIMAKYVEHRFARRCTPEPQRLWTAICNRDLLSVLEAFANGQDFGQPLPGPDAQAPEELVLHLAVKVANQASLPLVDFIIQNGGHLDAKAADGNTALHYAALYNQPDCLKLLLKGRALVGTVNEAGETALDIARKKHHKECEELLEQAQAGTFAFPLHVDYSWVISTEPGSDSEEDEEEKRCLLKLPAQAHWASGRLDISNKTYETVASLGAATPQGESEDCPPPLPVKNSSRTLVQGCARHA

				CTGAAGCTCCCGGCCCAGGCTCACTGGGCCAGTGGGAGGCTGGACATCAGCAAC AAGACCTATGAGACTGTCGCCAGCCTGGGAGCAGCCACCCCTCAGGGCGAGAGT GAGGACTGTCCCCCGCCCTTGCCAGTCAAAAACTCTTCTCGGACTTTGGTCCAA GGGTGTGCAAGACATGCCAGTGGAGATCGTTCTGAAGTCTCCAGCCTGAGTTCA GAGGCCCCTGAGACCCCTGAGAGCCTGGGCAGTCCAGCCTCCTCCTCCAGTCTG ATGAGCCCCTTGGAACCTGGGGATCCCAGCCAAGCCCCACCCAACTCTGAAGAG GGCCTCCGAGAGCCCCCAGGCACCTCCAGACCCAGCCTGACATCCGGGACCACC CCTTCGGAGATGTACCTCCCCGTCAGATTCAGCTCCGAGAGCACTCGCTCCTAT CGGCGGGGGGCGCGGAGCCCTGAAGATGGTCCCTCAGCCAGGCAGCCTCTGCCC AGAAGGAACGTGCCGGTTGGCATCACTGAAGGAGATGGCTCAAGGACTGGGAGT CTCCCAGCAAGTTCTGTGCAACTTTTGCAAGACTAG		SGDRSEVSSLSSEAPETPESLGS PASSSSLMSPLEPGDPSQAPPNS EEGLREPPGTSRPSLTSGTTPSE MYLPVRFSSESTRSYRRGARSPE DGPSARQPLPRRNVPVGITEGDG SRTGSLPASSVQLLQD*
Human Melatonin 1a receptor _v4	7	prey94587	336	GAAGATATTTTATTGAGAGTGAATAATGGAATAGGCCAATTCCATGAAAAGAGC ACAGGGTTGGTCTTAAAGAAGGTTTACCTCAACTTCTGAGTATTGAGAGAAGAA AGGAAGCCCTATGGTGGATGAAGATATATTTGAAGCTCAGGGCAGTTTCCTGCT TTATTGAGCAGAATAGGCTTTANCTCANAGAANAGTATTNCTTTGCATANGAAN ACCTTGTTGNGNTGACCTNNNTGCTCCGNATGGNATTCGCCATTNTNACTNNNC GTTNNCTNNTGTGGATGGGTNTTGATCTNTNTNTTNGNTTTNTCGGNGNTNNGC NNNATNNNGGNNCGNGTGNNCNCCNCCGGCCTCNNGCTTNNTNCGTGAANNCGG CNGGNTCCCNNCNCCTNGNGTGGNNNNTGCCNCCGNNNCTNGCCGNCTNCTNNG	1074	EDILLRVNNGIGQFHEKSTGLVL KKVYLNF*VLREERKPYGG*RYI *SSGQFPALLSRIGFXSXXSIXL HXXTLLX*PXCSXWXSPXXLXVX XCGWVLIXXXXXSXXXXXXXRVX XXGLXLXX*XRXXPXXXXGXCXR XXPXXX
Human Melatonin 1a receptor _v4	7	prey94588	337	AGTCTCATCACCTCACTGTTAGATTTTACATATGTTTATGTAATTTTGTGAATT ACCAGTCTTCTGACTTCAACACAAATAGCAAATTGCAAAGTGTTNCTTGGGGTT CTTGGGATGGGTTGGGAAGTCATTCTGACAATCTCAGAAGTTCTAAAGAACTAG TTTTATCTTAACTATCACTAATTTGCAAAGTACATGTTCCTTTTTCCTCTGGCT CTAATTCCTCTCTAACAAAAGTATTTCTAAATTTGACATTAATCTCTGGNGCTT CTTNAATTTGTGCATNNGNNAACTGANTTTTTTTNTTTTNTGAGATAACCATGA ANNANATTTTNGCGGNNNTCAANANGGAAGGNAANNNCNCTCTTTTTTTNCCCT CTGGCCCGNNGNNACAAAAGAANANANCNGN	1075	SLITSLLDFTYVYVIL*ITSLLT STQIANCKVXLGVLGMGWEVILT ISEVLKN*FYLNYH*FAKYMFLF PLALIPL*QKYF*I*H*SLXLLX FVHXXTXFFXFXR*P*XXFXRXS XXKXXXLFFXPLARXXKRXXX
Human Melatonin 1a receptor _v4	7	prey94589	338	TGGGCTTACGTGTTCTTCTGAAAGGTACAACTAAGAACAATGAAGGGTGATTAT CACAGGAAACTAATTTTGTTATCATTTTAAAGAAACACTTCCTATCAATAAATC TGTCTCATGACAGAATGGGAAGCAGAAAGAGCAGAGGCACCGAGTATGAAAAAG AAGGGACTTGACAGAGACTCTGCCACTTCTTTTTACTGATTTCCTCATTCTACT TCAGTATTCTCCCCGTGATTCCACAGTTCTACAGTTGGCATTTCTCACTGGTAA AATACAAGGGATTTCTGAACTGACAAATGAGATATCAGTGACTTGGGCCCATCT ANTTCTAACTATTTATGATCCTGAATATCACTTTGTGGCACTTCTGCCTTAATA ACTATGGTAACC	1076	WAYVFF*KVQLRTMKGDYHRKLI LLSF*RNTSYQ*ICLMTEWEAER AEAPSMKKKGLDRDSATSFY*FP HSTSVFSP*FHSSTVGISHW*NT RDF*TDK*DISDLGPSXSNYL*S *ISLCGTSALITMVT
Human Melatonin 1a receptor	7	prey3782	339	GGGGCTGATGGGAGAAAGGGGAGAAGACGGCCCCGCTGGAAATGGCACCGAGGG CTTCCCCGGCTTCCCCGGGTATCCCGGGAACAGGGGCGCTCCCGGGATAAACGG CACGAAGGGCTACCCCGGCCTCAAGGGGGACGAGGGAGAAGCCGGGGACCCCGG AGACGATAACAACGACATTGCACCCCGAGGAGTCAAAGGAGCAAAGGGGTACCG	1077	GLMGERGEDGPAGNGTEGFPGFP GYPGNRGAPGINGTKGYPGLKGD EGEAGDPGDDNNDIAPRGVKGAK GYRGPEGPQGPPGHQGPPGPDEC

_v4				GGGTCCCGAGGGCCCCCAGGGACCCCCAGGACACCAAGGACCGCCTGGGCCGGA CGAATGCGAGATTTTGGACATCATCATGAAAATGTGCTCTTGCTGTGAATGCAA GTGCGGCCCCATCGACCTCCTGTTCGTGCTGGACAGCTCAGAGAGCATTGGCCT GCAGAACTTCGAGATTGCCAAGGACTTCGTCGTCAAGGTCATCGACCGGCTGAG CCGGGACGAGCTGGTCAAGTTCGAGCCAGGGCAGTCGTACGCGGGTGTGGTGCA GTACAGCCACAGCCAGATGCAGGAGCACGTGAGCCTGCGCAGCCCCAGCATCCG GAACGTGCAGGAGCTCAAGGAAGCCATCAAGAGCCTGCAGTGGATGGCGGGCGG CACCTTCACGGGGGAGGCCCTGCAGTACACGCGGGACCAGCTGCTGCCGCCCAG CCCGAACAACCGCATCGCCCTGGTCATCACTGACGGGCGCTCAGACACTCAGAG GGACACCACACCGCTCAACGTGCTCTGCAGCCCCGGCATCCAGGTGGTCTCCGT GGGCATCAAAGACGTGTTTGACTTCATCCCAGGCTCAGACCAGCTCAATGTCAT TTCTTGCCAAGGCCTGGCACCATCCCAGGGCCGGCCCGGCCTCTCGCTGGTCAA GGAGAACTATGCAGAGCTGCTGGAGGATGCCTTCCTGAAGAATGTCACCGCCCA GATCTGCATAGACAAGAAGTGTCCAGATTACACCTGCCCCATCACGTTCTCCTC CCCGGCTGACATCACCATCCTGCTGGACGGCTCCGCCAGCGTGGGCAGCCACAA CTTTGACACCACCAAGCGCTTCGCCAAGCGCCTGGCCGAGCGCTTCCTCACAGC GGGCAGGACGGACCCCGCCCACGACGTGCGGGTGGCGGTGGTGCAGTACAGCGG CACGGGCCAGCAGCGCCCAGAGCGGGCGTCGCTGCAGTTCCTGCAGAACTACAC GGCCCTGGCCAGTGCCGTCGATGCCATGGACTTTATCAACGACGCCACCGACGT CAACGATGCCCTGGGCTATGTGACCCGCTTCTACCGCGAGGCCTCGTCCGGCGC TGCCAAGAAGAGGCTGCTGCTCTTCTCAGATGGCAACTCGCAGGGCGCCACGCC CGCTGCCATCGAGAAGGCCGTGCAGGAAGCCCAGCGGGCAGGCATCGAGATCTT CGTGGTGGTCGTGGGCCGCCAGGTGAATGAGCCCCACATCCGCGTCCTGGTCAC CGGCAAGACGGCCGAGTACGACGTGGCCTACGGCGAGAGCCACCTGTTCCGTGT CCCCAGCTACCAGGCCCTGCTCCGCGGTGTCTTCCACCAGACAGTCTCCAGGAA GGTGGCGCTGGGCTAG		EILDIIMKMCSCCECKCGPIDLL FVLDSSESIGLQNFEIAKDFVVK VIDRLSRDELVKFEPGQSYAGVV QYSHSQMQEHVSLRSPSIRNVQE LKEAIKSLQWMAGGTFTGEALQY TRDQLLPPSPNNRIALVITDGRS DTQRDTTPLNVLCSPGIQVVSVG IKDVFDFIPGSDQLNVISCQGLA PSQGRPGLSLVKENYAELLEDAF LKNVTAQICIDKKCPDYTCPITF SSPADITILLDGSASVGSHNFDT TKRFAKRLAERFLTAGRTDPAHD VRVAVVQYSGTGQQRPERASLQF LQNYTALASAVDAMDFINDATDV NDALGYVTRFYREASSGAAKKRL LLFSDGNSQGATPAAIEKAVQEA QRAGIEIFVVVVGRQVNEPHIRV LVTGKTAEYDVAYGESHLFRVPS YQALLRGVFHQTVSRKVALG*
Human Melatoni n 1a receptor _v4	7	prey94590	340	GANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCGTGTTTGCTCATTCTA GCTACATAGATCTTTATCAGTGGCTATAGCTTTATTATTGTTACATGTGCTACA CTGGCAAAGAAGGATATCTTTGCTCTTANAATCAAATAGTNCACACCATTGGAA AAAANCCTTNCTNATNGNAGGNGCGAGNAGGATNTTGAAAAANTTNTTTNNAAN ANNNNNTGTGNACTACTTTGGTTGGCTNGCTGTGGNGGGGCTTGNGNGTGNTG NGNGGTNGNNGGGTGTGNTNNNNGGNGGNGGAGNN	1078	XXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXX XXXCLLILAT*IFISGYSFIIVT CATLAKKDIFALXIK*XTPLEKX LXXXRXEXDXEKXXXXXXCXLLW LAXCGGGLXVXXGXXVXXXXXE
Human Melatoni n 1a receptor _v4	7	prey94592	341	GCTGATACATATTTCTTTCCCCCAAATCATACTCTGGCTCCCAAAATAAAAAAA TACTACAGCCTATTGGGGGTTTTAATCTGGGTTTTTGAAAATTTTTTTCAAAT NGGAAGGATTTNCCCNTTAAANCCCCCTNNTTTTTNGGNTTTTAAAAANCCCAA AAGTCCCGGGNGANAAAAAGGGGCCCCCCTCCCTTTTAAAGNGGNNACCTTTTT TNGGAAAAAAAAAAAAAAAATTTTTTNNANAANGGGGNTGNNACNNNTTGTNTN	1079	ADTYFFPPNHTLAPKIKKYYSLL GVLIWVFENFFSNXKDXPXKXPX FXGF*KXQKSRXXKRGPPPF*XG XLFXEKKKKNFXXXGXXTXCXXX LXGKKGGXXXCSPXXXXXLXKKX

				TNTNNATTGNTGGGNAAAAAGGGGGGGNCNCNNANNTGCTCCCCGCNGTNNTTN NTTTNNTTANAAAAAAAAAGNGGGGGGANCNGGGNGGNGNNCAAAT		GGXXXXXK
Human Melatonin 1a receptor _v4	7	prey94593	342	TTNNAGCTTCCCATAGATTNACNCTTGCTATGGATTTTGGAACTGTGGTTCANG TCTAAGACAACCAATATGAATANGTTCAATGGAGAAGGAAGAAGTAGCATTCAG CACAAGAAACTGTGGATTGTTTCTCCCACTTGTTACTGCATCTTTGTTCATTTC ACCCATAGCATTGCATTTGATGTCTGAAGTAATTACCACAAAATAAAGGTAAAC TACATCTTCCAAGATGTACCAACAGAAAACATTCGTCTAATTTTGTCNACATTG AATTTTTANGATTTAAATCTTGTCTTTATGAANACTCTAGGGGCTTAAAATTCN TGGGCNNNNNCCTNNNNNTGCNTNTNACTTTATTTNTNNNNNTTTCCCANNNNN NNNTNTTTNNTTTTTNNNGGGNCCNNNGGGNNCNN	1080	XXLPIDXXLLWILELWFXSKTTN MNXFNGEGRSSIQHKKLWIVSPT CYCIFVHFTHSIAFDV*SNYHKI KVNYIFQDVPTENIRLILSTLNF XDLNLVFMXTLGA*NSWAXXXXC XXLYXXXFPXXXXXXFXGXXGX
Human Melatonin 1a receptor _v4	7	prey94595	343	ATAAATCTAATTTATTTTATTTACCTTTAAGCAAAATATGTATCCATATGAAAA TGCCAGTTCTTTCNTTTTTGGTTAATTCCTTTACACATATTATTTGCTAANCCT CANAAATGCTATNTATACNAAAATTTAANAAATAAATAAGCNTCCCANGATNAC NTTCNCANTACTTTAAGTACATTCATGTTNAAGAANGCCAAAGAGCNNCGGNNN CTATCTNNATATTNTAAAGNCTNTCGTCAGGGAGNNNANAAANCNACNTATGTT TATNCTGTTNTCCCCCCTNNNACAAANNNNANNNTAAGAACANGNCCNNCAAAG CAGANCGCCTTGGGANAAGGGAGNNGAGNAGNGAGGGNGNGTAGNGANNGGAGG AANGNAGAGNNGCGNNNGAGGNNNNAGGGAGAGNCANGGGGNNAGTAGAAGANA NGCANGCGATNNCNGCGNAGNNGAAAANANGNNTNANNANGNNTC	1081	INLIYFIYL*AKYVSI*KCQFFX FWLIPLHILFAXPXKCYXYXNLX NK*ASXDXXXXTLSTFMXKXAKE XRXLSXYXKXXRQGXXIXTYVYX VXPPXTXXXXRTXPXKQXALGXG XXXXRXXXXXRXXEXRXRXXGEX XGX*KXXXRXXRXXKXXXXXX
Human Melatonin 1a receptor _v4	7	prey94598	344	CACAGAGCCTCCTGCATATGTCTTGTCTTTTTCTAATATTGTATCTTACAGTCA GAATCATATTCTTAAAATGGAAATCTGTTCAGGTAACTTACTTGGCCAGAACCC CTTTTAAGCCTTTCCATTTATTTTAAGGTAATTTCTTTCTGTGTTTGNTTACTG NTGGNTTNATCATGCTTGTTTNTNCCAACTTTGTTGNTTGNAGGGTGNGCTTGN CCTTTGGGNAAGGGNTTNGAGNGGTGGTGGCGTTGCTTGGTTGNAGGGGNTGTG NNGNCGTTGCTAGNGGTTTGTNGNGCNGNNNNCTNGCNNTGGANNNGTNCNGGN NTTNGGNTTNCCNGCTNNTGGGNGNGCGNNNACGNNNNTGTNGNGNNGAAGANN GANGNGACNGNGNNCGCGGCACGNCNNCCNGGACNCTGNNNAGNNGNGGNGGNN ANGANGNGTGNT	1082	HRASCICLVFF*YCILQSESYS* NGNLFR*LTWPEPLLSLSIYFKV ISFCVXLLXXXSCLFXPTLLXXG XAXPLGKGXEXWWRCLVXGXVXX LLXVCXAXXXXXWXXXGXXXXXXW XXXXXXVXXKXXXTXXAARXPGX XXXXXXXXXX
Human Melatonin 1a receptor _v4	7	prey3599	345	AGTTAGCCTTCCTAAAACAAAACTGTCTCTTCCAGGGTCTTCTAAGTCAGAGAC ATCAAAACCTGGACCTTCTGGATTACAGGCCAAATTAGCAAGTTTAAGAAAATC TACGAAGAAACGCAGTGAGTCTCCACCTGCTGAGCTCCCCAGTTTGAGGCGGAG CACACGCCAAAAGACCACGGGCTCCTGTGCTAGTACCAGTCGGCGAGGCTCTGG CCTGGGCAAAAGAGGAGCAGCTGAAGCTCGTCGACAGGAGAAAATGGCAGACCC TGAAAGCAACCAGGAGGCAGTAAATTCTTCAGCTGCTCGGACAGATGAAGCTCC CCAAGGAGCTGCAGGGGCTGTTGGCATGACCACCTCTGGGGAGAGTGAATCAGA TGATTCCGAGATGGGACGTTTGCAAGCTTTGTTAGAGGCAAGGGGTCTTCCCCC TCACCTATTTGGTCCTCTTGGTCCTCGGATGTCACAGCTTTTCCATAGAACAAT TGGAAGTGGAGCTAGTTCTAAGGCCCAGCAGCTACTACAAGGATTGCAAGCCAG TGATGAAAGTCAACAGCTTCAGGCAGTTATTGAGATGTGTCAGTTACTGGTCAT	1083	VSLPKTKLSLPGSSKSETSKPGP SGLQAKLASLRKSTKKRSESPPA ELPSLRRSTRQKTTGSCASTSRR GSGLGKRGAAEARRQEKMADPES NQEAVNSSAARTDEAPQGAAGAV GMTTSGESESDDSEMGRLQALLE ARGLPPHLFGPLGPRMSQLFHRT IGSGASSKAQQLLQGLQASDESQ QLQAVIEMCQLLVMGNEETLGGF PVKSVVPALITLLQMEHNFDIMN HACRALTYMMEALPRSSAVVVDA

				GGGAAATGAGGAGACACTGGGAGGGTTTCCTGTCAAGAGTGTTGTTCCAGCTTT		IPVFLEKLQVIQCIDVAEQALTA
				GATTACGTTACTTCAGATGGAGCACAATTTTGATATTATGAACCATGCTTGTCG		LEMLSRRHSKAILQAGGLADCLL
				AGCCTTAACATACATGATGGAAGCACTTCCTCGATCTTCTGCTGTTGTAGTAGA		YLEFFSINAQRNALAIAANCCQS
				TGCTATTCCTGTCTTTTTAGAAAAGCTGCAAGTTATTCAGTGTATTGATGTGGC		ITPDEFHFVADSLPLLTQRLTHQ
				AGAGCAGGCCTTGACTGCCTTGGAGATGTTGTCACGGAGACATAGTAAAGCCAT		DKKSVESTCLCFARLVDNFQHEE
				TCTACAGGCGGGTGGTTTGGCAGACTGCTTGCTGTACCTAGAATTCTTCAGCAT		NLLQQVASKDLLTNVQQLLVVTP
				AAATGCCCAAAGAAATGCATTAGCAATTGCAGCTAATTGCTGCCAGAGTATCAC		PILSSGMFIMVVRMFSLMCSNCP
				GCCAGATGAATTTCATTTTGTGGCAGATTCACTCCCATTGCTAACCCAAAGGCT		TLAVQLMKQNIAETLHFLLCGAS
				AACACATCAGGATAAAAAGTCAGTAGAAAGCACTTGCCTTTGTTTTGCACGCCT		NGSCQEQIDLVPRSPQELYELTS
				AGTGGACAACTTCCAGCATGAGGAGAATTTACTCCAGCAGGTTGCTTCCAAAGA		LICELMPCLPKEGIFAVDTMLKK
				TCTGCTTACAAATGTTCAACAGCTGTTGGTAGTGACTCCACCCATTTTAAGTTC		GNAQNTDGAIWQWRDDRGLWHPY
				TGGGATGTTTATAATGGTGGTTCGCATGTTTTCTCTGATGTGTTCCAACTGTCC		NRIDSRIIEQINEDTGTARAIQR
				AACTTTAGCTGTTCAACTTATGAAACAAAACATTGCAGAAACGCTTCACTTTCT		KPNPLANSNTSGYSESKKDDARA
				CCTGTGTGGTGCCTCCAATGGAAGTTGTCAGGAACAGATTGATCTTGTTCCACG		QLMKEDPELAKSFIKTLFGVLYE
				AAGCCCTCAAGAGTTGTATGAACTGACATCTCTGATTTGTGAACTTATGCCATG		VYSSSAGPAVRHKCLRAILRIIY
				TTTACCAAAAGAAGGCATTTTTGCAGTTGATACCATGTTGAAGAAGGGAAATGC		FADAELLKDVLKNHAVSSHIASM
				ACAGAACACAGATGGTGCGATATGGCAGTGGCGTGATGATCGGGGCCTCTGGCA		LSSQDLKIVVGALQMAEILMQKL
				TCCATATAACAGGATTGACAGCCGGATCATTGAGCAAATCAATGAGGACACGGG		PDIFSVYFRREGVMHQVKHLAES
				AACAGCACGTGCCATTCAGAGAAAACCTAACCCGTTAGCCAATAGTAACACTAG		ESLLTSPPKACTNGSGSMGSTTS
				TGGATATTCAGAGTCAAAGAAGGATGATGCTCGAGCACAGCTTATGAAAGAGGA		VSSGTATAATHAAADLGSPSLQH
				TCCGGAACTGGCTAAGTCTTTTATTAAGACATTATTTGGTGTTCTTTATGAAGT		SRDDSLDLSPQGRLSDVLKRKRL
				GTATAGTTCCTCAGCAGGACCTGCGGTCAGACATAAGTGCCTTAGAGCAATTCT		PKRGPRRPKYSPPRDDDKVDNQA
				TAGGATAATTTATTTTGCGGATGCTGAACTTCTGAAGGATGTTCTGAAAAATCA		KSPTTTQSPKSSFLASLNPKTWG
				TGCTGTTTCAAGTCACATTGCTTCCATGCTGTCAAGCCAAGACCTGAAGATAGT		RLSTQSNSNNIEPARTAGGSGLA
				AGTGGGAGCACTTCAGATGGCAGAAATTTTAATGCAGAAGTTACCTGATATTTT		RAASKDTISNNREKIKGWIKEQA
				TAGTGTTTACTTCAGAAGAGAAGGTGTAATGCATCAAGTAAAACACTTAGCAGA		HKFVERYFSSENMDGSNPALNVL
				ATCAGAGTCTTTGTTGACAAGTCCACCAAAGGCATGTACGAATGGATCGGGATC		QRLCAATEQLNLQVDGGAECLVE
				CATGGGATCCACAACTTCAGTCAGCAGTGGGACAGCCACAGCTGCCACTCATGC		IRSIVSESDVSSFEIQHSGFVKQ
				TGCAGCTGACTTGGGATCACCCAGCTTGCAGCACAGCAGGGATGATTCTTTAGA		LLLYLTSKSEKDAVSREIRLKRF
				TCTCAGCCCTCAAGGTCGATTAAGTGATGTTCTAAAGAGAAAACGACTGCCAAA		LHVFFSSPLPGEEPIGRVEPVGN
				ACGAGGGCCAAGAAGGCCAAAGTACTCACCTCCAAGAGATGATGACAAAGTAGA		APLLALVHKMNNCLSQMEQFPVK
				CAATCAAGCTAAAAGCCCCACCACTACTCAGTCACCTAAATCTTCTTTCCTGGC		VHDFPSGNGTGGSFSLNRGSQAL
				AAGCTTGAATCCAAAAACATGGGGAAGGTTAAGTACACAGTCCAACAGCAACAA		KFFNTHQLKCQLQRHPDCANVKQ
				CATTGAGCCAGCACGGACTGCGGGAGGTAGTGGCCTTGCCAGGGCTGCCTCAAA		WKGGPVKIDPLALVQAIERYLVV
				GGATACCATCTCCAATAATAGAGAAAAAATTAAAGGTTGGATTAAGGAGCAGGC		RGYGRVREDDEDSDDDGSDEEID
				ACATAAATTTGTAGAACGTTATTTCAGTTCTGAGAATATGGATGGAAGCAACCC		ESLAAQFLNSGNVRHRLQFYIGE
				TGCATTGAATGTCCTTCAGAGACTTTGTGCTGCAACCGAACAACTCAACCTCCA		HLLPYNMTVYQAVRQFSIQAEDE
				GGTGGATGGTGGAGCTGAGTGCCTTGTAGAAATCCGTAGCATAGTCTCAGAGTC		RESTDDESNPLGRAGIWTKTHTI
				AGATGTTTCATCATTTGAAATCCAACATAGTGGATTTGTGAAGCAGCTGTTGCT		WYKPVREDEESNKDCVGGKRGRA

				TTATTTGACATCTAAAAGTGAAAAGGATGCTGTGAGCAGAGAGATCAGATTAAA GCGATTTCTTCATGTATTTTTTTCTTCTCCACTTCCTGGAGAAGAGCCCATTGG AAGAGTGGAACCAGTGGGTAATGCACCTTTGTTGGCATTAGTTCACAAGATGAA CAACTGCCTCAGCCAGATGGAACAATTTCCAGTCAAAGTACATGATTTCCCTAG TGGAAATGGGACAGGAGGCAGCTTTTCTCTCAACAGAGGATCACAGGCTTTAAA ATTTTTCAACACACATCAATTAAAATGCCAGTTACAAAGGCATCCAGACTGTGC AAATGTGAAGCAGTGGAAGGGTGGACCTGTCAAGATTGACCCTCTGGCTTTGGT ACAAGCCATCGAGAGATACCTTGTAGTTAGAGGGTATGGAAGAGTAAGAGAAGA TGATGAAGACAGCGATGACGATGGATCAGATGAGGAAATAGATGAGTCTCTGGC TGCTCAGTTCCTAAATTCAGGAAATGTAAGACACAGGCTGCAGTTTTATATTGG AGAACATTTGCTGCCGTATAACATGACTGTGTATCAGGCAGTACGGCAGTTTAG TATACAGGCTGAAGATGAAAGAGAATCCACAGATGATGAGAGCAATCCTCTAGG CAGAGCTGGTATTTGGACAAAGACTCATACAATATGGTATAAACCTGTGAGAGA GGATGAAGAAAGTAATAAAGATTGTGTTGGTGGTAAAAGAGGAAGAGCCCAAAC AGCTCCAACGAAAACTTCCCCTAGAAATGCAAAAAAGCATGATGAGTTATGGCA CGATGGAGTGTGCCCATCAGTATCAAATCCTTTAGAAGTTTACCTCATTCCCAC ACCACCTGAAAATATAACATTTGAAGACCCGTCATTAGATGTGATCCTTCTTTT AAGAGTTTTACATGCTATCAGTCGATACTGGTATTACTTGTATGATAATGCAAT GTGCAAGGAAATTATTCCAACTAGTGAATTTATTAACAGTAAGTTAACAGCAAA AGCAAATAGGCAACTTCAAGATCCTTTAGTAATCATGACAGGAAACATCCCAAC ATGGCTTACTGAGCTAGGAAAAACCTGCCCATTTTTCTTTCCTTTTGATACCCG GCAAATGCTTTTTTATGTAACTGCATTTGATCGGGACCGAGCAATGCAAAGATT ACTTGATACCAACCCAGAAATCAACCAGTCTGATTCTCAAGATAGCAGAGTTGC ACCTAGATTGGATAGAAAAAAACGTACTGTGAACCGAGAGGAGCTGCTGAAACA GGCGGAGTCTGTGATGCAGGACCTCGGCAGCTCACGGGCCATGTTAGAAATCCA GTATGAAAATGAGGTTGGTACAGGTCTTGGGCCTACACTGGAGTTTTATGCGCT TGTATCTCAGGAACTACAGAGAGCTGACTTGGGTCTTTGGAGAGGTGAAGAAGT AACTCTTAGCAATCCAAAAGGGAGCCAAGAAGGGACCAAGTATATTCAAAACCT CCAGGGCCTGTTTGCGCTTCCCTTTGGTAGGACAGCAAAGCCAGCTCATATCGC AAAGGTTAAGATGAAGTTTCGCTTCTTAGGAAAATTAATGGCCAAGGCTATCAT GGATTTCAGATTGGTGGACCTTCCCCTTGGCTTACCCTTTTATAAATGGATGCT ACGGCAAGAAACTTCACTGACATCACACGATTTGTTTGACATCGACCCAGTTGT AGCCAGATCAGTTTATCACCTAGAAGACATTGTCAGACAGAAGAAAAGACTTGA ACAAGATAAATCCCAGACCAAAGAGAGTCTACAGTATGCATTAGAAACCTTGAC TATGAATGGCTGCTCAGTTGAAGATCTAGGACTGGATTTCACTCTGCCAGGGTT TCCCAATATCGAACTGAAGAAAGGAGGGAAGGATATACCAGTCACTATCCACAA TTTAGAGGAGTATCTAAGACTGGTTATATTCTGGGCACTAAATGAAGGCGTTTC TAGGCAATTTGATTCGTTCAGAGATGGATTTGAATCAGTCTTCCCACTCAGTCA TCTTCAGTACTTCTACCCGGAGGAACTGGATCAGCTCCTTTGTGGCAGTAAAGC		QTAPTKTSPRNAKKHDELWHDGV CPSVSNPLEVYLIPTPPENITFE DPSLDVILLLRVLHAISRYWYYL YDNAMCKEIIPTSEFINSKLTAK ANRQLQDPLVIMTGNIPTWLTEL GKTCPFFFPFDTRQMLFYVTAFD RDRAMQRLLDTNPEINQSDSQDS RVAPRLDRKKRTVNREELLKQAE SVMQDLGSSRAMLEIQYENEVGT GLGPTLEFYALVSQELQRADLGL WRGEEVTLSNPKGSQEGTKYIQN LQGLFALPFGRTAKPAHIAKVKM KFRFLGKLMAKAIMDFRLVDLPL GLPFYKWMLRQETSLTSHDLFDI DPVVARSVYHLEDIVRQKKRLEQ DKSQTKESLQYALETLTMNGCSV EDLGLDFTLPGFPNIELKKGGKD IPVTIHNLEEYLRLVIFWALNEG VSRQFDSFRDGFESVFPLSHLQY FYPEELDQLLCGSKADTWDAKTL MECCRPDHGYTHDSRAVKFLFEI LSSFDNEQQRLFLQFVTGSPRLP VGGFRSLNPPLTIVRKTFESTEN PDDFLPSVMTCVNYLKLPDYSSI EIMREKLLIAAREGQQSFHLS*

				AGACACTTGGATGCAAAGACACTGATGGAATGCTGTAGGCCTGATCATGGTTA TACTCATGACAGTCGGGCTGTGAAGTTTTTGTTTGAGATTCTCAGTAGTTTTGA TAATGAGCAGCAGAGGTTATTTCTCCAGTTTGTGACTGGTAGCCCAAGATTGCC TGTTGGAGGATTCCGGAGTTTGAATCCACCTTTGACAATTGTCCGAAAGACGTT TGAATCAACAGAAAACCCAGATGACTTCTTGCCCTCTGTAATGACTTGTGTGAA CTATCTTAAGTTGCCGGACTATTCAAGCATTGAGATAATGCGTGAAAAACTGTT GATAGCAGCAAGAGAAGGGCAGCAGTCGTTCCATCTTTCCTGA		
Human Melatonin 1a receptor _v4	7	prey94602	346	AAAGTGAATGAGAAATACTGCCTCATACAACCCAGTTTCCCTTTAAGCCTTCAG TTTAATTGTATTGATATATTATCTGCTTACTACATTAGTAACATAGNNTATGAG AATAACGTTTGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNACCCNCCCNNATNACTGGGNTTNCNGGNGTGCGCTGGCATGNTNG NGTGGTNGGGTGNGTTGTTANGTGNGNNGTGGNNNTTGGGGGGTGGNNNGGNNC NGGNTGGGNNGGCGNNGGCGNGGNCGCCNTCNNNCTCNGNGCNCNNNCNNNNNN GNTNGNNACNGGCGNNNGTNGNTGGCGCCGCNTTNNCNCCNGCCNCT	1084	KVNEKYCLIQPSFPLSLQFNCID ILSAYYISNIXYENNVXXXXXXX XXXXXXXXXXXXXXXXXXXXXX XXXXXXTXPXXWXXXXALAXXXG XVXCXVXXGXWGVXXXXXGXRXR GRXXXXXXXXXXXXXRXXXAPXX XXP
Human Melatonin 1a receptor _v4	7	prey94604	347	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTATTTTACTTTATTTTTAAACCCATT AATTTTATATCTGTTAACTTGATTGTGCATTTACAAATTATTTTATTGCATTCT AGAAATACTCTGTATTCTGTTTTTATATTTTGAGAAAGGTTATAAATTAATACA TTTTGAAGTGCCCAGTATGGGTTGTGCAATACCNAAGGNNATTTTGNTTNANNN NGCTCNTCNNNATTAANGNTGGNNGNCTTNGTTTTT	1085	XXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXFYFIF KPINFISVNLIVHLQIILLHSRN TLYSVFIF*ERL*INTF*SAQYG LCNTXGXFXXXXSSXLXXXXXVF
Human Melatonin 1a receptor _v4	7	prey3549	348	ATGGGAGGCATTATGGCCCCCAAAGACATAATGACAAATACTCATGCTAAATCC ATCCTCAATTCAATGAACTCCCTCAGGAAGAGCAATACCCTCTGTGATGTGACA TTGAGAGTAGAGCAGAAAGACTTCCCTGCCCATCGGATTGTGCTGGCTGCCTGT AGTGATTACTTCTGTGCCATGTTCACTAGTGAGCTCTCAGAGAAGGGGAAACCT TATGTTGACATCCAAGGTTTGACTGCCTCTACCATGGAAATTTTATTGGACTTT GTGTACACAGAAACAGTACATGTGACAGTGGAGAATGTACAAGAACTGCTTCCT GCAGCCTGTCTGCTTCAGTTGAAAGGTGTGAAACAAGCCTGCTGTGAGTTCTTA GAAAGTCAGTTGGACCCTTCTAATTGCCTGGGTATTAGGGATTTTGCTGAAACC CACAATTGTGTTGACCTGATGCAAGCAGCTGAGGTTTTTAGCCAGAAGCATTTT CCTGAAGTGGTACAGCATGAAGAGTTCATTCTTCTGAGTCAAGGAGAGGTGGAA AAGCTAATCAAGTGCGACGAAATTCAGGTGGATTCTGAAGAGCCAGTCTTTGAG GCTGTCATCAACTGGGTGAAGCATGCCAAGAAAGAGCGGGAAGAATCCTTGCCT AACCTGCTACAGTATGTGCGGATGCCCCTACTAACCCCCAGGTATATCACAGAT GTAATAGATGCTGAGCCTTTCATCCGCTGTAGTTTACAATGCAGGGATCTGGTT GATGAAGCAAAGAAGTTTCATCTGAGGCCTGAACTTCGGAGTCAGATGCAGGGA CCCAGGACAAGGGCTCGCCTAGGAGCCAATGAAGTGCTTTTGGTGGTTGGGGGC	1086	MGGIMAPKDIMTNTHAKSILNSM NSLRKSNTLCDVTLRVEQKDFPA HRIVLAACSDYFCAMFTSELSEK GKPYVDIQGLTASTMEILLDFVY TETVHVTVENVQELLPAACLLQL KGVKQACCEFLESQLDPSNCLGI RDFAETHNCVDLMQAAEVFSQKH FPEVVQHEEFILLSQGEVEKLIK CDEIQVDSEEPVFEAVINWVKHA KKEREESLPNLLQYVRMPLLTPR YITDVIDAEPFIRCSLQCRDLVD EAKKFHLRPELRSQMQGPRTRAR LGANEVLLVVGGFGSQQSPIDVV EKYDPKTQEWSFLPSITRKRRYV ASVSLHDRIYVIGGYDGRSRLSS VECLDYTADEDGVWYSVAPMNVR

				TTTGGAAGCCAGCAGTCTCCCATTGATGTGGTAGAGAAATATGACCCCAAGACT CAGGAGTGGAGCTTTTTGCCAAGCATCACTCGTAAGAGACGTTATGTGGCCTCA GTGTCCCTTCATGACCGGATCTACGTCATTGGTGGCTATGATGGCCGTTCCCGC CTTAGTTCAGTGGAATGTCTAGACTACACAGCAGATGAGGATGGGGTCTGGTAT TCTGTGGCCCCTATGAATGTCCGACGAGGTCTTGCTGGAGCCACCACCCTGGGA GATATGATCTATGTCTCTGGAGGCTTTGATGGAAGCAGGCGTCACACCAGTATG GAGCGCTATGATCCAAACATTGACCAGTGGAGCATGCTGGGAGATATGCAGACA GCCCGGGAAGGTGCCGGACTCGTAGTGGCCAGTGGAGTGATCTACTGTCTAGGA GGATATGACGGCTTGAATATCTTAAATTCAGTTGAGAAATACGACCCTCATACA GGACATTGGACTAATGTTACACCAATGGCCACCAAGCGTTCTGGTGCAGGAGTA GCCCTGCTGAATGACCATATTTATGTGGTGGGGGATTTGATGGTACAGCCCAC CTTTCTTCCGTTGAAGCATACAACATTCGCACTGATTCCTGGACAACTGTCACC AGTATGACCACTCCACGATGCTATGTAGGGGCCACAGTGCTTCGGGGGAGACTC TATGCAATTGCAGGATATGATGGTAATTCCCTGCTAAGTAGCATTGAATGTTAT GACCCTATCATCGACAGCTGGGAAGTCGTGACATCCATGGGAACCCAGCGCTGT GATGCTGGTGTTTGTGTTCTCCGCGAGAAGTGA		RGLAGATTLGDMIYVSGGFDGSR RHTSMERYDPNIDQWSMLGDMQT AREGAGLVVASGVIYCLGGYDGL NILNSVEKYDPHTGHWTNVTPMA TKRSGAGVALLNDHIYVVGGFDG TAHLSSVEAYNIRTDSWTTVTSM TTPRCYVGATVLRGRLYAIAGYD GNSLLSSIECYDPIIDSWEVVTS MGTQRCDAGVCVLREK*
Human Melatonin 1a receptor _v4	7	prey3518	349	ATGGAGCCGCCGAATCTCTATCCGGTGAAGCTCTACGTGTACGACCTGTCCAAA GGCCTGGCCCGGCGGCTCAGCCCCATCATGCTGGGAAACAACTGGAAGGCATC TGGCACACATCCATAGTTGTGCACAAGGATGAGTTCTTCTTCGGCAGTGGTGGT ATCTCCAGCTGCCCCCCGGGAGGGACATTGCTTGGCCTCCAGACTCTGTGGTT GATGTGGGGAGTACAGAAGTCACAGAAGAAATCTTTCTGGAGTACCTCTCCTCC CTGGGGGAGTCCCTGTTCCGAGGTGAGGCCTACAACCTCTTTGAACACAATTGT AACACCTTCAGCAACGAAGTGGCACAGTTCCTGACTGGGCGGAAGATTCCTTCT TACATCACAGACCTGCCCTCTGAAGTTCTCTCCACGCCCTTTGGACAGGCACTT CGGCCCCTCCTGGACTCCATTCAGATCCAGCCTCCAGGAGGGAGCTCCGTGGGC AGACCCAACGGCCAGAGCTAA	1087	MEPPNLYPVKLYVYDLSKGLARR LSPIMLGKQLEGIWHTSIVVHKD EFFFGSGGISSCPPGGTLLGPPD SVVDVGSTEVTEEIFLEYLSSLG ESLFRGEAYNLFEHNCNTFSNEV AQFLTGRKIPSYITDLPSEVLST PFGQALRPLLDSIQIQPPGGSSV GRPNGQS*
Human Melatonin 1a receptor _v4	7	prey94610	350	AAGGTCATACTGGCCTCCCTGAATGAGCTGGGTAGCATTCCTTTTTCTTACTCT AGTTTCTGAAAGAGTCTGTGTAGGATTCACATTATTTCTTTGCAAAAACTATTT ACCAGTGAAGACATATGAGCCTGTGTTCTTCTTTATGGGAAGATTTTAATTACT AATTCATTTAAAAAATAGTGATAGGTCTATTNAGTTTTTAATATTTNTTTTTNA GTNGGGGTTGATNATTGGGGGTNTTTGTNAGNATTGNTNNTTGGGTGTNCGGTG GGGNGTGGGGGTGGTTGGGGGTGGGGGGGGTGNTGTGGGGGTGGGNTTGGTGTG GGGGTGGGGGGCGGGGGGGGGGTGGCGGGGGNCTGGGNGTGGGGGGTGGGGNCC NGTNGAGGNNNGTACNNNGGGGNGGNNGGGCTNNNNCNGGGCGGNNCGGNGG	1088	KVILASLNELGSIPFSYSSF*KS LCRIHIISLQKLFTSEDI*ACVL LYGKILITNSFKK***VYXVFNI XFXVGVDXWGXLXXLXXGCXVGX GGGWGWGGXCGGGXGVGVGGGGG VAGXWXWGVGXXXGXYXGXXGLX XGGXX
Human Melatonin 1a receptor _v4	7	prey3736	351	AGCAGCCACGGATGGACGACTCAAAGTCGGAGATCAGATACTGGCTGTAGATGA TGAAATTGTTGTTGGTTACCCTATTGAAAAGTTTATTAGCCTTCTGAAGACAGC AAAGATGACAGTAAAACTTACCATCCATGCTGAGAATCCAGATTCCCAGGCTGT TCCTTCAGCAGCTGGTGCAGCCAGTGGAGAAAAAAAGAACAGCTCCCAGTCTCT GATGGTCCCACAGTCTGGCTCCCCAGAACCGGAGTCCATCCGAAATACAAGCAG	1089	AATDGRLKVGDQILAVDDEIVVG YPIEKFISLLKTAKMTVKLTIHA ENPDSQAVPSAAGAASGEKKNSS QSLMVPQSGSPEPESIRNTSRSS TPAIFASDPATCPIIPGCETTIE

				ATCATCAACACCAGCAATTTTTGCTTCTGATCCTGCAACCTGCCCCATTATCCC TGGCTGCGAAACAACCATCGAGATTTCCAAAGGGCGAACAGGGCTGGGCCTGAG CATCGTTGGGGGTTCAGACACGCTGCTGGGTGCCATTATTATCCATGAAGTTTA TGAAGAAGGAGCAGCATGTAAAGATGGAAGACTCTGGGCTGGAGATCAGATCTT AGAGGTGAATGGAATTGACTTGAGAAAGGCCACACATGATGAAGCAATCAATGT CCTGAGACAGACGCCACAGAGAGTGCGCCTGACACTCTACAGAGATGAGGCCCC ATACAAAGAGGAGGAAGTGTGTGACACCCTCACTATTGAGCTGCAGAAGAAGCC GGGAAAAGGCCTAGGATTAAGTATTGTTGGTAAAAGAAACGATACTGGAGTATT TGTGTCAGACATTGTCAAAGGAGGAATTGCAGATGCCGATGGAAGACTGATGCA GGGAGACCAGATATTAATGGTGAATGGGGAAGACGTTCGTAATGCCACCCAAGA AGCGGTTGCCGCTTTGCTAAAGTGTTCCCTAGGCACAGTAACCTTGGAAGTTGG AAGAATCAAAGCTGGATCCAGTACATCTGAGTCACTGGAAAGTAGCTCAAAGAA GAATGCATTGGCATCTGAAATACAGGGATTAAGAACAGTCGAAATGAAAAAGGG CCCTACTGACTCACTGGGAATCAGCATCGCTGGAGGAGTAGGCAGCCCACTTGG TGATGTGCCTATATTTATTGCAATGATGCACCCAACTGGAGTTGCAGCACAGAC CCAAAAACTCAGAGTTGGGGATAGGATTGTCACCATCTGTGGCACATCCACTGA GGGCATGACTCACACCCAAGCAGTTAACCTACTGAAAAATGCATCTGGCTCCAT TGAAATGCAGGTGGTTGCTGGAGGAGACGTGAGTGTGGTCACAGGTCATCAGCA GGAGCCTGCAAGTTCCAGTCTTTCTTTCACTGGGCTGACGTCAAGCAGTATATT TCAGGATGATTTAGGACCTCCTCAATGTAAGTCTATTACACTAGAGCGAGGACC AGATGGCTTAGGCTTCAGTATAGTTGGAGGATATGGCAGCCCTCATGGAGACTT ACCCATTTATGTTAAAACAGTGTTTGCAAAGGGAGCAGCCTCTGAAGACGGACG TCTGAAAAGGGGCGATCAGATCATTGCTGTCAATGGGCAGAGTCTAGAAGGAGT CACCCATGAAGAAGCTGTTGCCATCCTTAAACGGACAAAAGGCACTGTCACTTT GATGGTTCTCTCTTGA		ISKGRTGLGLSIVGGSDTLLGAI IIHEVYEEGAACKDGRLWAGDQI LEVNGIDLRKATHDEAINVLRQT PQRVRLTLYRDEAPYKEEEVCDT LTIELQKKPGKGLGLSIVGKRND TGVFVSDIVKGGIADADGRLMQG DQILMVNGEDVRNATQEAVAALL KCSLGTVTLEVGRIKAGSSTSES LESSSKKNALASEIQGLRTVEMK KGPTDSLGISIAGGVGSPLGDVP IFIAMMHPTGVAAQTQKLRVGDR IVTICGTSTEGMTHTQAVNLLKN ASGSIEMQVVAGGDVSVVTGHQQ EPASSSLSFTGLTSSSIFQDDLG PPQCKSITLERGPDGLGFSIVGG YGSPHGDLPIYVKTVFAKGAASE DGRLKRGDQIIAVNGQSLEGVTH EEAVAILKRTKGTVTLMVLS*
Human Melatoni n 1a receptor _v4	7	prey3712	352	GTTTGAGGACAGTAATCCTTCCCCTCTACCACCGGATATGGCTCCTGGGCAGAG TTATCAACCCCAATCAGAATCTGCTTCCTCTAGTTCGATGGATAAGTATCATAT ACATCACATTTCTGAACCAACTAGACAAGAAAACTGGACACCTTTGAAAAATGA CTTGGAAAATCACCTTGAAGACTTTGAACTGGAAGTAGAACTCCTCATTACCCT AATTAAATCAGAAAAAGGAAGCCTGGGTTTTACAGTAACCAAAGGCAATCAGAG AATTGGTTGTTATGTTCATGATGTCATACAGGATCCAGCCAAAAGTGATGGAAG GCTAAAACCTGGGGACCGGCTCATAAAGGTTAATGATACAGATGTTACTAATAT GACTCATACAGATGCAGTTAATCTGCTCCGGGCTGCATCCAAAACAGTCAGATT AGTTATTGGACGAGTTCTAGAATTACCCAGAATACCAATGTTGCCTCATTTGCT ACCGGACATAACACTAACGTGCAACAAAGAGGAGTTGGGTTTTTCCTTATGTGG AGGTCATGACAGCCTTTATCAAGTGGTATATATTAGTGATATTAATCCAAGGTC CGTCGCAGCCATTGAGGGTAATCTCCAGCTATTAGATGTCATCCATTATGTGAA CGGAGTCAGCACACAAGGAATGACCTTGGAGGAAGTTAACAGAGCATTAGACAT GTCACTTCCTTCATTGGTATTGAAAGCAACAAGAAATGATCTTCCAGTGGTCCC	1090	FEDSNPSPLPPDMAPGQSYQPQS ESASSSSMDKYHIHHISEPTRQE NWTPLKNDLENHLEDFELEVELL ITLIKSEKGSLGFTVTKGNQRIG CYVHDVIQDPAKSDGRLKPGDRL IKVNDTDVTNMTHTDAVNLLRAA SKTVRLVIGRVLELPRIPMLPHL LPDITLTCNKEELGFSLCGGHDS LYQVVYISDINPRSVAAIEGNLQ LLDVIHYVNGVSTQGMTLEEVNR ALDMSLPSLVLKATRNDLPVVPS SKRSAVSAPKSTKGNGSYSVGSC SQPALTPNDSFSTVAGEEINEIS YPKGKCSTYQIKGSPNLTLPKES

				CAGCTCAAAGAGGTCTGCTGTTTCAGCTCCAAAGTCAACCAAAGGCAATGGTTC CTACAGTGTGGGGTCTTGCAGCCAGCCTGCCCTCACTCCTAATGATTCATTCTC CACGGTTGCTGGGGAAGAAATAAATGAAATATCGTACCCCAAAGGAAAATGTTC TACTTATCAGATAAAGGGATCACCAAACTTGACTCTGCCCAAAGAATCTTATAT ACAAGAAGATGACATTTATGATGATTCCCAAGAAGCTGAAGTTATCCAGTCTCT GCTGGATGTTGTGGATGAGGAAGCCCAGAATCTTTTAAACGAAAATAATGCAGC AGGATACTCCTGTGGTCCAGGTACATTAAAGATGAATGGGAAGTTATCAGAAGA GAGAACAGAAGATACAGACTGCGATGGTTCACCTTTACCTGAGTATTTTACTGA GGCCACCAAAATGAATGGCTGTGAAGAATATTGTGAAGAAAAAGTAAAAAGTGA AAGCTTAATTCAGAAGCCACAAGAAAAGAAGACTGATGATGATGAAATAACATG GGGAAATGATGAGTTGCCAATAGAGAGAACAAACCATGAAGATTCTGATAAAGA TCATTCCTTTCTGACAAACGATGAGCTCGCTGTACTCCCTGTCGTCAAAGTGCT TCCCTCTGGTAAATACACGGGTGCCAACTTAAAATCAGTCATTCGAGTCCTGCG GGGTTTGCTAGATCAAGGAATTCCTTCTAAGGAGCTGGAGAATCTTCAAGAATT AAAACCTTTGGATCAGTGTCTAATTGGGCAAACTAAGGAAAACAGAAGGAAGAA CAGATATAAAAATATACTTCCCTATGATGCTACAAGAGTGCCTCTTGGAGATGA AGGTGGCTATATCAATGCCAGCTTCATTAAGATACCAGTTGGGAAAGAAGAGTT CGTTTACATTGCCTGCCAAGGACCACTGCCTACAACTGTTGGAGACTTCTGGCA GATGATTTGGGAGCAAAAATCCACAGTGATAGCCATGATGACTCAAGAAGTAGA AGGAGAAAAAATCAAATGCCAGCGCTATTGGCCCAACATCCTAGGCAAAACAAC AATGGTCAGCAACAGACTTCGACTGGCTCTTGTGAGAATGCAGCAGCTGAAGGG CTTTGTGGTGAGGGCAATGACCCTTGAAGATATTCAGACCAGAGAGGTGCGCCA TATTTCTCATCTGAATTTCACTGCCTGGCCAGACCATGATACACCTTCTCAACC AGATGATCTGCTTACTTTTATCTCCTACATGAGACACATCCACAGATCAGGCCC AATCATTACGCACTGCAGTGCTGGCATTGGACGTTCAGGGACCCTGATTTGCAT AGATGTGGTTCTGGGATTAATCAGTCAGGATCTTGATTTTGACATCTCTGATTT GGTGCGCTGCATGAGACTACAAAGACACGGAATGGTTCAGACAGAGGATCAATA TATTTTCTGCTATCAAGTCATCCTTTATGTCCTGACACGTCTTCAAGCAGAAGA AGAGCAAAAACAGCAGCCTCAGCTTCTGAAGTGA		YIQEDDIYDDSQEAEVIQSLLDV VDEEAQNLLNENNAAGYSCGPGT LKMNGKLSEERTEDTDCDGSPLP EYFTEATKMNGCEEYCEEKVKSE SLIQKPQEKKTDDDEITWGNDEL PIERTNHEDSDKDHSFLTNDELA VLPVVKVLPSGKYTGANLKSVIR VLRGLLDQGIPSKELENLQELKP LDQCLIGQTKENRRKNRYKNILP YDATRVPLGDEGGYINASFIKIP VGKEEFVYIACQGPLPTTVGDFW QMIWEQKSTVIAMMTQEVEGEKI KCQRYWPNILGKTTMVSNRLRLA LVRMQQLKGFVVRAMTLEDIQTR EVRHISHLNFTAWPDHDTPSQPD DLLTFISYMRHIHRSGPIITHCS AGIGRSGTLICIDVVLGLISQDL DFDISDLVRCMRLQRHGMVQTED QYIFCYQVILYVLTRLQAEEEQK QQPQLLK*
Human Melatonin 1a receptor _v4	7	prey3722	353	GGAGATGTTGGGATTCGAGGGGACCCGGGTAACCCAGGACAAGACAGCCAGGAG AGAGGACCCAAAGGAGAAACCGGTGACCTCGGCCCCATGGGTGTCCCAGGGAGA GATGGAGTACCTGGAGGACCTGGAGAAACTGGGAAGAATGGTGGCTTTGGCCGA AGGGGACCCCCCGGAGCTAAGGGCAACAAGGGCGGTCCTGGCCAGCCGGGCTTT GAGGGAGAGCAGGGGACCAGAGGTGCACAGGGCCCAGCTGGTCCTGCTGGTCCT CCAGGGCTGATAGGAGAACAAGGCATTTCTGGACCTAGGGGAAGCGGAGGTGCC CGTGGCGCTCCTGGAGAACGAGGCAGAACCGGTCCACTGGGAAGAAAGGGTGAG CCCGGAGAGCCAGGACCAAAAGGAGGAATCGGGAACCCGGGCCCTCGTGGGGAG ACGGGAGATGACGGGAGAGACGGAGTTGGCAGTGAAGGACGCAGAGGCAAAAAA GGAGAAAGAGGATTTCCTGGATACCCAGGACCAAAGGGTAACCCAGGTGAACCT	1091	GDVGIRGDPGNPGQDSQERGPKG ETGDLGPMGVPGRDGVPGGPGET GKNGGFGRRGPPGAKGNKGGPGQ PGFEGEQGTRGAQGPAGPAGPPG LIGEQGISGPRGSGGARGAPGER GRTGPLGRKGEPGEPGPKGGIGN PGPRGETGDDGRDGVGSEGRRGK KGERGFPGYPGPKGNPGEPGLNG TTGPKGIRGRRGNSGPPGIVGQK GRPGYPGPAGPRGNRGDSIDQCA

				GGGCTAAATGGAACAACAGGACCCAAAGGCATCAGAGGCCGAAGGGGAAATTCG GGACCTCCAGGGATAGTTGGACAGAAGGGGAGACCTGGCTACCCAGGACCAGCT GGTCCAAGGGGCAACAGGGGCGACTCCATCGATCAATGTGCCCTCATCCAAAGC ATCAAAGATAAATGCCCTTGCTGTTACGGGCCCCTGGAGTGCCCCGTCTTCCCA ACAGAACTAGCCTTTGCTTTAGACACCTCTGAGGGAGTCAACCAAGACACTTTC GGCCGGATGCGAGATGTGGTCTTGAGTATTGTGAATGTCCTGACCATTGCTGAG AGCAACTGCCCGACGGGGGCCCGGGTGGCTGTGGTCACCTACAACAACGAGGTG ACCACGGAGATCCGGTTTGCTGACTCCAAGAGGAAGTCGGTCCTCCTGGACAAG ATTAAGAACCTTCAGGTGGCTCTGACATCCAAACAGCAGAGTCTGGAGACTGCC ATGTCGTTTGTGGCCAGGAACACATTTAAGCGTGTGAGGAACGGATTCCTAATG AGGAAAGTGGCTGTTTTCTTCAGCAACACACCCACAAGAGCATCCCCACAGCTC AGAGAGGCTGTGCTCAAACTCTCAGATGCGGGGATCACCCCCTTGTTCCTTACA AGGCAGGAAGACCGGCAGCTCATCAACGCTTTGCAGATCAATAACACAGCAGTG GGGCATGCGCTTGTCCTGCCTGCAGGGAGAGACCTCACAGACTTCCTGGAGAAT GTCCTCACGTGTCATGTTTGCTTGGACATCTGCAACATCGACCCATCCTGTGGA TTTGGCAGTTGGAGGCCTTCCTTCAGGGACAGGAGAGCGGCAGGGAGTGATGTG GACATCGACATGGCTTTCATCTTAGACAGCGCTGAGACCACCACCCTGTTCCAG TTCAATGAGATGAAGAAGTACATAGCGTACCTGGTCAGACAACTGGACATGAGC CCAGATCCCAAGGCCTCCCAGCACTTCGCCAGAGTGGCAGTTGTGCAGCACGCG CCCTCTGAGTCCGTGGACAATGCCAGCATGCCACCTGTGAAGGTGGAATTCTCC CTGACTGACTATGGCTCCAAGGAGAAGCTGGTGGACTTCCTCAGCAGGGGAATG ACACAGTTGCAGGGAACCAGGGCCTTAGGCAGTGCCATTGAATACACCATAGAG AATGTCTTTGAAAGTGCCCCAAACCCACGGGACCTGAAAATTGTGGTCCTGATG CTGACGGGCGAGGTGCCGGAGCAGCAGCTGGAGGAGGCCCAGAGAGTCATCCTG CAGGCCAAATGCAAGGGCTACTTCTTCGTGGTCCTGGGCATTGGCAGGAAGGTG AACATCAAGGAGGTATACACCTTCGCCAGTGAGCCAAACGACGTCTTCTTCAAA TTAGTGGACAAGTCCACCGAGCTCAACGAGGAGCCTTTGATGCGCTTCGGGAGG CTGTTGCCGTCCTTCGTCAGCAGTGAAAATGCTTTTTACTTGTCCCCAGATATC AGGAAACAGTGTGATTGGTTCCAAGGGGACCAACCCACAAAGAACCTTGTGAAG TTTGGTCACAAACAAGTAAATGTTCCGAATAACGTTACTTCAAGTCCTACATCC AACCCAGTGACGACAACGAAGCCGGTGACTACGACGAAGCCGGTGACCACCACA ACAAAGCCTGTAACCACCACAACAAAGCCTGTGACTATTATAAATCAGCCATCT GTGAAGCCAGCCGCTGCAAAGCCGGCCCCTGCGAAACCTGTGGCTGCCAAGCCT GTGGCCACAAAGACGGCCACTGTTAGACCCCCAGTGGCGGTGAAGCCAGCAACA GCAGCGAAGCCTGTAGCAGCAAAGCCAGCAGCTGTAAGACCCCCCGCTGCTGCT GCAAAACCAGTGGCGACCAAGCCTGAGGTCCCTAGGCCACAGGCAGCCAAACCA GCTGCCACCAAGCCAGCCACCACTAAGCCCGTGGTTAAGATGCTCCGTGAAGTC CAGGTGTTTGAGATAACAGAGAACAGCGCCAAACTCCACTGGGAGAGGCCTGAG CCCCCCGGTCCTTATTTTTATGACCTCACCGTCACCTCAGCCCATGATCAGTCC		LIQSIKDKCPCCYGPLECPVFPT ELAFALDTSEGVNQDTFGRMRDV VLSIVNVLTIAESNCPTGARVAV VTYNNEVTTEIRFADSKRKSVLL DKIKNLQVALTSKQQSLETAMSF VARNTFKRVRNGFLMRKVAVFFS NTPTRASPQLREAVLKLSDAGIT PLFLTRQEDRQLINALQINNTAV GHALVLPAGRDLTDFLENVLTCH VCLDICNIDPSCGFGSWRPSFRD RRAAGSDVDIDMAFILDSAETTT LFQFNEMKKYIAYLVRQLDMSPD PKASQHFARVAVVQHAPSESVDN ASMPPVKVEFSLTDYGSKEKLVD FLSRGMTQLQGTRALGSAIEYTI ENVFESAPNPRDLKIVVLMLTGE VPEQQLEEAQRVILQAKCKGYFF VVLGIGRKVNIKEVYTFASEPND VFFKLVDKSTELNEEPLMRFGRL LPSFVSSENAFYLSPDIRKQCDW FQGDQPTKNLVKFGHKQVNVPNN VTSSPTSNPVTTTKPVTTTKPVT TTTKPVTTTTKPVTIINQPSVKP AAAKPAPAKPVAAKPVATKTATV RPPVAVKPATAAKPVAAKPAAVR PPAAAAKPVATKPEVPRPQAAKP AATKPATTKPVVKMLREVQVFEI TENSAKLHWERPEPPGPYFYDLT VTSAHDQSLVLKQNLTVTDRVIG GLLAGQTYHVAVVCYLRSQVRAT YHGSFSTKKSQPPPPQPARSASS STINLMVSTEPLALTETDICKLP KDEGTCRDFILKWYYDPNTKSCA RFWYGGCGGNENKFGSQKECEKV CAPVLAKPGVISVMGT*

				CTGGTTCTGAAGCAGAACCTCACGGTCACGGACCGCGTCATTGGAGGCCTGCTCGCTGGGCAGACATACCATGTGGCTGTGGTCTGCTACCTGAGGTCTCAGGTCAGAGCCACCTACCACGGAAGTTTCAGTACAAAGAAATCTCAGCCCCCACCTCCACAGCCAGCAAGGTCAGCTTCTAGTTCAACCATCAATCTAATGGTGAGCACAGAACCATTGGCTCTCACTGAAACAGATATATGCAAGTTGCCGAAAGACGAAGGAACTTGCAGGGATTTCATATTAAAATGGTACTATGATCCAAACACCAAAAGCTGTGCAAGATTCTGGTATGGAGGTTGTGGTGGAAACGAAAACAAATTTGGATCACAGAAAGAATGTGAAAAGGTTTGCGCTCCTGTGCTCGCCAAACCCGGAGTCATCAGTGTGATGGGAACCTAA		
Human Melatonin 1a receptor _v4	7	prey94624	354	ATAAATCTAAGTTATTTATTTAGTTTAAGCAAAATATGTATCCATATGAAAATGCCAGTTCTTTCATTTTTGGTTAATTCCTTTACACATATTATTTGCTAAGTTCAGAAATGCTATATATACAAAAATTTCAAAAATAAATAAGTATCCCAAGATCACATAACAATACTTTAAGTNCATTCATGTGTNAGAAGGNGGAANNAGAAGGTTCTATNTTATATNTNAAAACTTTGNCAGGGGTTTTANGGTGTGTNNTNGNTGTNCTTTNTTNTNTTTGNGGGATGGGGGTGGTGCNNGCGCGTGGATGGNNCNNTNTTGTNNNNCNGCGGCNGGACGCNGNGTCCTACNTGGNAGGNTCNCCNCNGCCGTCNGCNCNNCTNNTTTTGCCNCNCTTNNGGNGNCNCCNNNNCCGCANNGTAGGAGGGCCNCNCCCNCCNNATTNCGCTCCNNNCNNNN	1092	INLSYFI*FKQNMYPYENASSFIFG*FLYTYYLLSSEMLYIQKFQK*ISIPRSHNNTLSXFMCXKXEXEGSXLYXKTLXGVLXCVXXVLXXXXGMGVVXARGWXXXVXXRXDAXSYXXGSPXPSAXLXLPXXXXXXXRXVGGPXPPXXAPXX
Human Melatonin 1a receptor _v4	7	prey94626	355	TGCAATATGAACCAAATTGTCTTTCAAGGGCTTCTAAATTACTGAATTGGATCTTGAATTTCCTGAACTTTACTTGTTGGGGCATGTTCTTTAAAGAAAAGCTTGTATAAAAAAGGGTTTGTAATCCATATACAATAGGGATCTCAACTGTTTTCTGAAGCGCAATTTATTTTTCTCATATACTTTTCTTAAATTAAGTTTAGCTTAATGTTGCCTGCTTACATATTTTAAGTTTGGACTNANNGNNTCTGCACACATANTNACTNNTNACCNNNNNGNNGGNNNGGNAGNNGANNCANNCTGNNTGCNGGCNGTGGCGNGGGNGGNCCTCCNNNNGNNTGNTCNGNNNNNTNACNNTNNTNGNTGNGCGNGANNGTTNGNCGNGGNGNNGNNGGAANNCGGNCGCNGGGCNATATNNNTNANNGGNCCCNCTNNCTTTTNCNCNCNCNTTGCT	1093	CNMNQIVFQGLLNY*IGS*IS*TLLVGACSLKKSLYKKGFVIHIQ*GSQLFSEAQFIFLIYFS*IKFSLMLPAYIF*VWTXXXCTHXXXXPXXXXGXXXXLXAGXGXGGPPXXXSXXXXXXXXXXVXRGXXGXRXXGXXXXXXXXLXXXXC
Human Melatonin 1a receptor _v4	7	prey94629	356	GCGGGTTTAGGGAGGAGCAGAGAGGGGGCACCGGATGGAGGCAAATCCAAGACATTCACAACTTTTCTGGGTGCCCCAGACACGGGCATCTCCCCACCTGCTGCCGCATCCACAACCCCCAGGGCTGCTTTATCATCAAGGAACCTGCTTTCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGNACCTGCCGANTGGNTGGGGAGTNCNGGNNCACACCGCGGGTGCCTGGNTNNTTGGNNGGGNTTNTTTNNTTGNGGGGNNGGNNGCGNCTGNNNNTTGTATNANNCCNAAGTGGGANNNGGTNCNNNTNTTNTNNCNGNNTTANTNNNNTNNT	1094	AGLGRSREGAPDGGKSKTFTTFLGAPDTGISPPAAASTTPRAALSSRNLLSXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXPAXWXGSXGXHRGCLXXWXGXFXXGXGXXXXLYXXXVGXGXXXXXXLXXX
Human Melatonin 1a receptor	7	prey94631	357	CNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCTGAGAGACATCGTGACCAGCCTATTCAGTAAATTCTATTTCTGTGTATGCCAGAGCAT	1095	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXERHRDQPIQ*ILFLCMPEHVVVNSLT*SLAAFVQLLVLP

_v4				GTTGTGGTTAACAGCTTGACTTGAAGTCTAGCTGCCTTTGTTCAACTCCTAGTT CTTCCACTTAATGTGTGACCCTTTTGAAAAGACAATCCCTCTGTGCCCACCTTC CTCATGTATAAAAGNTGATGAGAATAACTACNAGTTGACATGATGATTAAATAA AACCCNTTTAATAATGAANACTTGN		LNV*PF*KDNPSVPTFLMYKX** E*LXVDMMIK*NPFNNEXL
Human Melatonin 1a receptor _v4	7	prey94633	358	TTTTTCTTAGTTTTTTTTTAGACCATGTCTCACTTTATTGCCCAGGCCAGAGTG CAGAGGCATGATCACTACTCACTATAGCCTTAACCTCCTGGGCTCAGGCGATCC TCCCAGCTTAGCCTCCAGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNGTANAGATGGTGTCCTACTGTGTTGCCCAGGCCTG GNCTCAAACTCCTGTGCTNNANCGNTNCNCTNTGCTGGACCTGCCGAAAGGTNN NNNNNNGATGAGAGGNGCTNTNNNNGNGCGGGGGGGNGGNGNGNGGTGNTGGGA GNNGGAGAGGGGGGGGNNGCGNGGNGNNGNAANANCNNGGNNNAGGTGNNGNGG CNNGGGGGNNGNNGNNCNGNAGNNNCNNAGNNN	1096	FFLVFF*TMSHFIAQARVQRHDH YSL*P*PPGLRRSSQLSLQXXXX XXXXXXXXXXXXXXXXDGVLLCC PGLXSNSCAXXXXXAGPAERXXX DERXXXXAGGXXXVXGXGEGGXA XXXXXXXXVXXXGGXXXXXXXX
Human Melatonin 1a receptor _v4	7	prey94643	359	TTGGTGCTTTGTTGGTTTTAGTATCAAGGTAATACTAGTTTGAGGTAAAGAATT GGGAAGTGTTTCCTCTTCTCTTTTCCGGAAGAGATTGTATAGAATTGATGTTAA TGATTTCTTAAACCTCTAGCAGAAGTCTCTAGTGAAAATACCTGGGTCTAGAGA TTTCTTTTTGAAGAATTTCTACATTTGAATTCAAGTTCTCAATAGTTATAGAAA TATTTAAATGATCTATTTTATATTGATTTTATTTATGGCANTANTTNGAGTTTT TNAANGAATTGNNNTNTTNCNTCTNNNTTGNCAAATNTNNNNNNNNNCNNGNNG ANNNNNNGNNNNNNNGNNNNNNNNNNNNNNNGNGGNNNNNNNAGAGGNGNNNGGN GNAGGGGGNNGNNGAGGAGNGNNGAGNAGNNGNGANGGAGNGAGNG	1097	LVLCWF*YQGNTSLR*RIGKCFL FSFPEEIV*N*C**FLKPLAEVS SENTWV*RFLFEEFLHLNSSSQ* L*KYLNDLFYIDFIYGXXXSFXX NXXXXSXLXNXXXXXXXXXXXXX XXXXXXXEXXGXGGXXGXXXXXX GXX
Human Melatonin 1a receptor _v4	7	prey3789	360	TCAGCCAGTTGGAGCTGCAGGGGTACCATGGATGCCAGCGCCACAGCCTCCATT AAACTGTCCACCTGGATTAGAATATTTAAGTCAGATAGATCAGATACTGATTCA TCAGCAAATTGAACTTCTGGAAGTTTTAACAGGTTTTGAAACTAATAACAAATA TGAAATTAAGAACAGCTTTGGACAGAGGGTTTACTTTGCAGCGGAAGATACTGA TTGCTGTACCCGAAATTGCTGTGGGCCATCTAGACCTTTTACCTTGAGGATTAT TGATAATATGGGTCAAGAAGTCATAACTCTGGAGAGACCACTAAGATGTAGCAG CTGTTGTTGTCCCTGCTGCCTTCAGGAGATAGAAATCCAAGCTCCTCCTGGTGT ACCAATAGGTTATGTTATTCAGACTTGGCACCCATGTCTACCAAAGTTTACAAT TCAAAATGAGAAAAGAGAGGATGTACTAAAAATAAGTGGTCCATGTGTTGTGTG CAGCTGTTGTGGAGATGTTGATTTTGAGATTAAATCTCTTGATGAACAGTGTGT GGTTGGCAAAATTTCCAAGCACTGGACTGGAATTTTGAGAGAGGCATTTACAGA CGCTGATAACTTTGGAATCCAGTTCCCTTTAGACCTTGATGTTAAAATGAAAGC TGTAATGATTGGTGCCTGTTTCCTCATTGACTTCATGTTTTTTGAAAGCACTGG CAGCCAGGAACAAAAATCAGGAGTGTGGTAG	1098	QPVGAAGVPWMPAPQPPLNCPPG LEYLSQIDQILIHQQIELLEVLT GFETNNKYEIKNSFGQRVYFAAE DTDCCTRNCCGPSRPFTLRIIDN MGQEVITLERPLRCSSCCCPCCL QEIEIQAPPGVPIGYVIQTWHPC LPKFTIQNEKREDVLKISGPCVV CSCCGDVDFEIKSLDEQCVVGKI SKHWTGILREAFTDADNFGIQFP LDLDVKMKAVMIGACFLIDFMFF ESTGSQEQKSGVW*
Human Melatonin 1a receptor _v4	7	prey94648	361	GCGGGGCGGAGCCAGGGAGGGGGTTCCCAGAGCTGTTGTTGCTGTTGGGACTCG AGAGTGGGGATGGGCTGGGCCTNTGTTCGTNCGTCCGACCCCCCTCATGTGTGC TGCCCCAAACCTCGCCGCTCCCTAGTTTGGTATTCTGTGTCCGGCCTGGGGTAG TNNCTGGACACCAGACTCAATTCTTGGGCTCCATTTTCCGNCTTTTTCGCCTNN TCTTGGTCTGTTCTTGNGTTATTTNNTTNNNCNCNNTNTCCNNNGNNTNTGNNN	1099	AGRSQGGGSQSCCCCWDSRVGMG WAXVRXSDPPHVCCPKPRRSLVW YSVSGLG*XLDTRLNSWAPFSXF FAXSWSVLXLFXXXXXPXXXXIX XXXVXXXMXXXVXXXXXXFXXXX

				ATTNNNNNTGNTNNNGTNTNNAGNNANATGNTTTTNTNCGTATTNGNCNTNGNN NGTCANTTTNTNNTTTNNTNNTNNGNTTTTGTNGNNGNTNTTNTTTTNTTTTT TTTTNNTNTTTTANTNNTTTTTTTTTNTTNTTTTTTNTTNTTTTNT		XXFCXXXXFXFFXXFXXFFXXFF XXX
Human Melatonin 1a receptor_v4	7	prey94650	362	CCCCTCTGCCCTGCTTTGTGTCCCACCTCTCCCCCTCCACTTCCTCTCCTCCCA CCCTCAGTCTCACCCCCGGGCTGTCTCACTCTCTGGAGCCTCTCCTTCCTGTTC TCTGTCCCCAGTGCTCCCTACCCTCACCTCAAGACGACCATGGCCACCATCCCA GACTGGAAGCTACAGCTGCTAGCCCGGCGCCGGCAGGAGGAGGCGTCCGTTCGA GGCCGAGAGAAAGCAGAACGGGAGCGCCTGTCCCAGATGCCAGCCTGGAAACGA GGGCTCCTGGAGCGCCGCCGGGCCAAGCTTGGGCTGTCCCCTGGGGAGCCTAGC CCTGTGCTAGGGACTGTAGAGGCTGGACCTCCAGACCCGGATGAGTCTGCGGTC CTTCTGGAGGCCATCGGGCCAGTGCACCAGAACCGATTCATCCGGCAGGAGCGG CAGCAGCAGCAGCAGCAACAACAACGGAGTGAAGAGCTGCTAGCAGAGAGAAAG CCTGGGCCTCTGGAGGCCCCGGAGCGGAGACCCAGCCCTGGGGAGATGCGGGAT CAGAGCCCCAAGGGAAGAGAGTCAAGAGAAGAGAGACTAAGTCCGAGGGAGACC AGAGAGAGGAGGCTGGGGATAGGGGGAGCCCAAGAGTTGAGCCTGAGGCCTCTG GAGGCTCGGGACTGGAGGCAAAGCCCAGGAGAGGTGGGAGACAGGAGCTCCCGA CTGTCAGAGGCATGGAAATGGAGGCTGAGTCCTGGAGAAACTCCAGAGCGGAGT CTGAGACTAGCAGAGTCTCGAGAGCAAAGCCCCAGGAGAAAAGAGGTGGAAAGT AGACTGAGCCCAGGGGAATCTGCCTACCAGAAGTTGGGCCTGACAGAGGCCCAT AAATGGAGACCTGACTCCAGAGAGTCTCAGGAACAGAGTTTGGTACAACTGGAG GCAACAGAGTGGAGGCTGAGGTCAGGAGAAGAAAGACAAGACTACTCGGAAGAA TGTGGGAGAAAAGAAGAGTGGCCAGTTCCAGGGGTAGCTCCAAAAGAGACTGCA GAGCTGTCCGAGACCCTGACAAGGGAGGCCCAAGGCAACAGTTCCGCAGGAGTG GAGGCAGCAGAGCAGAGGCCTGTGGAAGATGGCGAGAGGGGCATGAAGCCAACA GAAGGGTGGAAATGGACCCTGAACTCCGGGAAGGCTCGAGAATGGACACCCAGG GACATAGAGGCTCAAACTCAGAAACCAGAACCTCCAGAGTCAGCAGAGAAGCTT CTGGAATCTCCCGGTGTGGAGGCTGGAGAAGGGGAGGCTGAGAAGGAGGAGGCG GGGGCTCAGGGCAGGCCTCTGAGAGCCCTGCAGAACTGCTGCTCTGTGCCCTCC CCCCTCCCACCAGAGGACGCTGGGACTGGAGGCCTGAGACAGCAGGAAGAGGAA GCAGTGGAGCTCCAGCCCCCACCACCAGCCCCTCTGTCTCCCCCACCCCCAGCC CCAACTGCCCCCCAACCTCCTGGGGATCCCCTCATGAGCCGCCTGTTCTATGGG GTGAAGGCAGGGCCAGGGGTGGGGGCCCCCCGCCGCAGTGGACACACCTTCACC GTCAACCCCCGGCGGTCTGTGCCCCCTGCGACCCCAGCCACCCCAACCTCTCCA GCCACAGTTGATGCTGCAGTCCCGGGGGCTGGGAAGAAGCGGTACCCAACTGCC GAGGAGATCTTGGTTCTGGGGGGCTACCTCCGTCTCAGCCGCAGCTGCCTTGCC AAGGGGTCCCCCGAAAGACACCACAAACAGCTTAAGATCTCCTTCAGCGAGACA GCCCTGGAGACCACGTACCAATACCCCTCCGAGAGTTCGGTACTGGAGGAGCTG GGCCCGGAGCCTGAGGTCCCCAGTGCCCCCAACCCTCCAGCAGCCCAACCCGAC GACGAAGAGGATGAGGAAGAGCTGCTGCTGCTGCAGCCAGAGCTCCAGGGCGGG	1100	PLCPALCPTSPPPLPLLPPSVSP PGCLTLWSLSFLFSVPSAPYPHL KTTMATIPDWKLQLLARRRQEEA SVRGREKAERERLSQMPAWKRGL LERRRAKLGLSPGEPSPVLGTVE AGPPDPDESAVLLEAIGPVHQNR FIRQERQQQQQQQRSEELLAER KPGPLEARERRPSPGEMRDQSPK GRESREERLSPRETRERRLGIGG AQELSLRPLEARDWRQSPGEVGD RSSRLSEAWKWRLSPGETPERSL RLAESREQSPRRKEVESRLSPGE SAYQKLGLTEAHKWRPDSRESQE QSLVQLEATEWRLRSGEERQDYS EECGRKEEWPVPGVAPKETAELS ETLTREAQGNSSAGVEAAEQRPV EDGERGMKPTEGWKWTLNSGKAR EWTPRDIEAQTQKPEPPESAEKL LESPGVEAGEGEAEKEEAGAQGR PLRALQNCCSVPSPLPPEDAGTG GLRQQEEEAVELQPPPPAPLSPP PPAPTAPQPPGDPLMSRLFYGVK AGPGVGAPRRSGHTFTVNPRRSV PPATPATPTSPATVDAAVPGAGK KRYPTAEEILVLGGYLRLSRSCL AKGSPERHHKQLKISFSETALET TYQYPSESSVLEELGPEPEVPSA PNPPAAQPDDEEDEEELLLLQPE LQGGLRTKALIVDESCRR*

				CTGCGCACCAAGGCCCTGATTGTGGATGAGTCCTGCCGGCGGTGA		
Human Melatonin 1a receptor_v4	7	prey94656	363	GTGAATCTTATGCTGAGTAGTTTTTCCTCATAACCAAGCATTTATGATATATTA CTACTTATAATACTGTGGCTAGTCTCTAGAATGGATGTTGAAATCTTTGCCTCC TCAGTCGGGAAGAGTCCTGCTAAAAATCAGGCTAAAAATCAGGCCAAAAATCAG GCCAAATGACTTGGCAAATAATTGACAAAGTGGTTTTCACGTGTGTCTATCTTT GCTAGCAGCTTGTATACCTCAGGCCAGGTGAGCTCCCCAAATTTCTTTTTTCAT TTACTCCAGTGAGTTTCTGCTGTCTTTTTCAAGTATGTACCATANGACTTAAAG GTGATTTGGATGCGTTGNAACACTGCTAANTATGCTNNNNNCNNAATTNTATNT CNNNNCTGNGNGANNNNNNNNNNTNGGCTNNGGNN	1101	VNLMLSSFSS*PSIYDILLLIIL WLVSRMDVEIFASSVGKSPAKNQ AKNQAKNQAK*LGK*LTKWFSRV SIFASSLYTSGQVSSPNFFFHLL Q*VSAVFFKYVPXDLKVIWMRXN TAXYAXXXIXXXXXXXXXXXLX
Human Melatonin 1a receptor_v4	7	prey94663	364	CCCTCTTCTGCATCGTCCTCGGGCTCCGGCTTGGTGCTCACGCACACAGGAAAG TCCTTCAGCTTCTCCTGCAGGGCCCGCTCGTCCAGGGGGCGGTGCTTGCTCTGG ATCCTGTGGCGGGGGCGTCTCTGCAGGCCAGGGTCCTGGGCGCCCGTGAAGATG GAGCCATATTCCTGCAGGCGCCCTGGAGCAGGGTACTTGGCACTGGAGAACACC TTGATGGCCTTCTTGCTGCCCTTGATCTTCTCAATCTTGGCCTGGGCCAAGGAG ACCTTCTCTCCAATGGCCTGCACCTGGCTCCGGCTCTGCTCTACCTGCTGA	1102	PSSASSSGSGLVLTHTGKSFSFS CRARSSRGRCLLWILWRGRLCRP GSWAPVKMEPYSCRRPGAGYLAL ENTLMAFLLPLIFSILAWAKETF SPMACTWLRLCSTC*
Human Melatonin 1a receptor_v4	7	prey3559	365	CAGAGCTATCAATGTTCTTCTGGAAGGAAACCCAGACACGCATTCCTGGGAGAT GGTCGGGAAGAAGAAGGGAGTCTCAGGCCAGAAGGATGGTGGCCAGACGGAATC CAATGAGGAAGGCAAAGAAAATCGAGACCGGGACAGAGACTATAGTCGGCGACG TGGTGGGCCACCAAGACGGGGGAGAGGTGCCAGCCGTGGACGAGAGTTTCGAGG TCAGGAAAATGGATTGGATGGCACCAAGAGTGGAGGGCCTTCTGGAAGAGGAAC AGAAAGAGGCAGAAGGGGCCGTGGCCGAGGCAGAGGTGGCTCTGGTAGGCGAGG AGGAAGGTTTTCTGCTCAAGGAATGGGAACCTTTAACCCAGCTGATTATGCAGA GCCAGCCAATACTGATGATAACTATGGCAATAGCAGCGGCAATACGTGGAACAA CACTGGCCACTTTGAACCAGATGATGGGACGAGTGCATGGAGGACTGCAACAGA GGAGTGGGGGACTGAAGATTGGAATGAAGATCTTTCTGAGACCAAGATCTTCAC TGCCTCTAATGTGTCTTCAGTGCCTCTGCCTGCGGAGAATGTGACAATCACTGC TGGTCAGAGAATTGACCTTGCTGTTCTGCTGGGGAAGACACCATCTACAATGGA GAATGATTCATCTAATCTGGATCCGTCTCAGGCTCCTTCTCTGGCCCAGCCTCT GGTGTTCAGTAATTCGAAGCAGACTGCCATATCACAGCCTGCTTCAGGGAACAC ATTTTCTCATCACAGTATGGTGAGCATGTTAGGGAAAGGATTTGGTGATGTCGG TGAAGCTAAAGGCGGCAGTACTACAGGCTCCCAGTTCTTGGAGCAATTCAAGAC TGCCCAAGCCCTGGCTCAGTTGGCAGCTCAGCATTCTCAGTCTGGAAGCACCAC CACCTCCTCTTGGGACATGGGCTCGACGACACAATCCCCATCACTGGTGCAGTA TGATTTGAAGAACCCAAGTGATTCAGCAGTGCACAGCCCCTTTACAAAGCGCCA GGCTTTTACCCCATCTTCAACCATGATGGAGGTGTTCCTTCAGGAGAAGTCACC TGCAGTGGCTACCTCCACAGCTGCACCTCCACCTCCGTCTTCTCCTCTGCCAAG CAAATCCACATCGGCTCCACAGATGTCGCCTGGATCTTCAGACAACCAGTCCTC TAGCCCTCAGCCGGCTCAGCAGAAACTGAAACAGCAGAAGAAAAAAGCCTCCTT GACTTCTAAGATTCCTGCTCTGGCTGTGGAGATGCCTGGCTCAGCAGATATCTC	1103	RAINVLLEGNPDTHSWEMVGKKK GVSGQKDGGQTESNEEGKENRDR DRDYSRRRGGPPRRGRGASRGRE FRGQENGLDGTKSGGPSGRGTER GRRGRGRGRGGSGRRGGRFSAQG MGTFNPADYAEPANTDDNYGNSS GNTWNNTGHFEPDDGTSAWRTAT EEWGTEDWNEDLSETKIFTASNV SSVPLPAENVTITAGQRIDLAVL LGKTPSTMENDSSNLDPSQAPSL AQPLVFSNSKQTAISQPASGNTF SHHSMVSMLGKGFGDVGEAKGGS TTGSQFLEQFKTAQALAQLAAQH SQSGSTTTSSWDMGSTTQSPSLV QYDLKNPSDSAVHSPFTKRQAFT PSSTMMEVFLQEKSPAVATSTAA PPPPSSPLPSKSTSAPQMSPGSS DNQSSSPQPAQQKLKQQKKKASL TSKIPALAVEMPGSADISGLNLQ FGALQFGSEPVLSDYESTPTTSA SSSQAPSSLYTSTASESSSTISS NQSQESGYQSGPIQSTTYTSQNN AQGPLYEQRSTQTRRYPSSISSS PQKDLTQAKNGFSSVQATQLQTT

				AGGGCTAAACCTGCAGTTTGGGGCATTGCAGTTTGGGTCAGAGCCTGTCCTTTC TGATTATGAGTCCACCCCCACCACGAGCGCCTCTTCAAGCCAGGCTCCAAGTAG CCTGTATACCAGCACGGCCAGTGAATCATCCTCTACAATTTCATCTAACCAGAG TCAGGAGTCTGGTTATCAGAGCGGCCCAATTCAGTCGACAACCTATACCTCCCA AAATAATGCTCAGGGCCCTCTTTATGAACAGAGATCCACACAGACTCGGCGGTA CCCCAGCTCCATCTCTTCATCACCCCAAAAGGACCTGACTCAGGCAAAGAATGG CTTCAGTTCTGTGCAGGCCACGCAGTTACAGACCACACAATCTGTTGAAGGTGC TACAGGCTCTGCAGTGAAATCTGATTCACCTTCCACTTCTAGCATCCCCCCTCT CAATGAAACGGTATCTGCAGCTTCCTTACTGACGACAACCAATCAGCATTCATC CTCCTTGGGTGGCTTGAGCCACAGTGAGGAGATTCCAAATACTACCACCACACA ACACAGCAGCACGTTATCTACGCAGCAGAATACCCTTTCATCATCAACATCTTC TGGGCGCACTTCGACATCCACTCTTTTGCACACAAGTGTGGAGAGTGAGGCGAA TCTCCATTCTTCCTCCAGCACTTTTTCCACCACATCCAGCACAGTCTCTGCACC TCCCCCAGTGGTCAGTGTCTCCTCCAGTCTCAATAGTGGCAGTAGCCTGGGCCT CAGCCTAGGCAGCAACTCCACTGTCACAGCCTCGACTCGAAGCTCAGTTGCTAC GACTTCAGGAAAAGCTCCTCCCAACCTCCCTCCTGGGGTCCCGCCGTTGTTGCC TAATCCGTATATTATGGCTCCAGGGCTGTTACATGCCTACCCGCCACAAGTATA TGGTTATGATGACTTGCAGATGCTTCAGACAAGATTTCCATTGGATTACTACAG CATCCCATTTCCCACACCCACTACTCCGCTGACTGGGAGGGATGGTAGCCTGGC CAGCAACCCTTATTCTGGTGACCTCACAAAGTTCGGCCGTGGGGATGCCTCCTC CCCAGCCCCGGCCACAACCTTGGCCCAACCCCAACAGAACCAGACGCAGACTCA CCATACCACGCAGCAGACATTCCTGAACCCGGCGCTGCCTCCTGGCTACAGTTA CACCAGCCTGCCATACTATACAGGGGTCCCGGGCCTCCCCAGCACCTTCCAGTA TGGGCCTGCTGTGTTCCCTGTGGCTCCTACCTCTTCCAAGCAGCATGGTGTGAA TGTCAGTGTGAATGCATCGGCCACCCCCTTTCCAACAGCCGAGTGGATATGGGTC TCATGGATACAACACTGGAAGAAAATATCCACCCCCTTACAAGCATTTCTGGAC GGCTGAGAGCTAA		QSVEGATGSAVKSDSPSTSSIPP LNETVSAASLLTTTNQHSSSLGG LSHSEEIPNTTTTQHSSTLSTQQ NTLSSSTSSGRTSTSTLLHTSVE SEANLHSSSSTFSTTSSTVSAPP PVVSVSSSLNSGSSLGLSLGSNS TVTASTRSSVATTSGKAPPNLPP GVPPLLPNPYIMAPGLLHAYPPQ VYGYDDLQMLQTRFPLDYYSIPF PTPTTPLTGRDGSLASNPYSGDL TKFGRGDASSPAPATTLAQPQQN QTQTHHTTQQTFLNPALPPGYSY TSLPYYTGVPGLPSTFQYGPAVF PVAPTSSKQHGVNVSVNASATPF QQPSGYGSHGYNTGRKYPPPYKH FWTAES*
Human Melatoni n 1a receptor _v4	7	prey1123	366	GACCTATGTGGTGGGCATTGACAGTGACGGCTGGGTCCGAGATGTCACACAGAG GTACGACCCAGTCTGGATGACAGTGACCCGCAAGTGCCGGGTTGATGCTGAGTG GTGGGCCGAGACCTTGAGACCATACCAGAGCCCATTTATGGACAGGGAGAAGAA AGAAGACTTGGAGTTTCAGGCAAAACACATGGACCAGCCTTTGCCCACTGCCAT TGGCTTATATAAGAACCACCCTCTGTATGCCCTGAAGCGGCATCTCCTGAAATA TGAGGCCATCTATCCCGAGACAGCTGCCATCCTTGGGTATTGTCGTGGAGAAGC GGTCTACTCCAGGGATTGTGTGCACACTCTGCATTCCAGAGACACGTGGCTGAA GAAAGCAAGAGTGGTGAGGCTTGGAGAAGTACCCTACAAGATGGTGAAAGGCTT TTCTAACCGTGCTCGGAAAGCCCGACTTGCTGAGCCCCAGCTGCGGGAAGAAAA TGACCTGGGCCTGTTTGGCTACTGGCAGACAGAGGAGTATCAGCCCCCAGTGGC CGTGGACGGGAAGGTGCCCCGGAACGAGTTTGGGAATGTGTACCTCTTCCTGCC CAGCATGATGCCTATTGGCTGTGTCCAGCTGAACCTGCCCAATCTACACCGCGT	1104	TYVVGIDSDGWVRDVTQRYDPVW MTVTRKCRVDAEWWAETLRPYQS PFMDREKKEDLEFQAKHMDQPLP TAIGLYKNHPLYALKRHLLKYEA IYPETAAILGYCRGEAVYSRDCV HTLHSRDTWLKKARVVRLGEVPY KMVKGFSNRARKARLAEPQLREE NDLGLFGYWQTEEYQPPVAVDGK VPRNEFGNVYLFLPSMMPIGCVQ LNLPNLHRVARKLDIDCVQAITG FDFHGGYSHPVTDGYIVCEEFKD VLLTAWENEQAVIERKEKEKKEK

				GGCCCGCAAGCTGGACATCGACTGTGTCCAGGCCATCACTGGCTTTGATTTCCA TGGCGGCTACTCCCATCCCGTGACTGATGGATACATCGTCTGCGAGGAATTCAA AGACGTGCTCCTGACTGCCTGGGAAAATGAGCAGGCAGTCATTGAAAGGAAGGA GAAGGAGAAAAAGGAGAAGCGGGCTCTAGGGAACTGGAAGTTGCTGGCCAAAGG TCTGCTCATCAGGGAGAGGCTGAAGCGTCGCTACGGGCCCAAGAGTGAGGCAGC AGCTCCCCACACAGATGCAGGAGGTGGACTCTCTTCTGATGAAGAGGAGGGGAC CAGCTCTCAAGCAGAAGCGGCCAGGATACTGGCTGCCTCCTGGCCTCAAAACCG AGAAGATGAAGAAAAGCAGAAGCTGAAGGGTGGGCCCAAGAAGACCAAAAGGGA AAAGAAAGCAGCAGCTTCCCACCTGTTCCCATTTGAGAAGCTGTGA		RALGNWKLLAKGLLIRERLKRRY GPKSEAAAPHTDAGGGLSSDEEE GTSSQAEAARILAASWPQNREDE EKQKLKGGPKKTKREKKAAASHL FPFEKL*
Human Melatonin 1a receptor _v4	7	prey3794	367	ATGCCTCTTTCTCAGATTAAGAAGGTATTGGACATAAGAGAGACAGAAGATTGC CATAATGCTTTTGCCTTGCTTGTGAGGCCACCAACAGAGCAGGCAAATGTGCTA CTCAGTTTCCAGATGACATCAGATGAACTTCCAAAAGAAAACTGGCTAAAGATG CTGTGTCGACATGTAGCTAACACCATTTGTAAAGCAGATGCTGAGAATCTTATT TATACTGCTGATCCAGAATCCTTTGAAGTAAATACAAAAGATATGGACAGTACA TTGAGTAGAGCATCAAGAGCAATAAAAAAGACTTCAAAAAAGGTTACAAGAGCA TTCTCTTTCTCCAAAACTCCAAAAAGAGCTCTTCGAAGGGCTCTTATGACATCC CACGGCTCAGTGGAGGGAAGAAGTCCTTCCAGCAATGATAAGCATGTAATGAGT CGTCTTTCTAGCACATCATCATTAGCAGGTATCCCTTCTCCCTCCCTTGTCAGC CTTCCTTCCTTCTTTGAAAGGAGAAGTCATACGTTAAGTAGATCTACAACTCAT TTGATATGA	1105	MPLSQIKKVLDIRETEDCHNAFA LLVRPPTEQANVLLSFQMTSDEL PKENWLKMLCRHVANTICKADAE NLIYTADPESFEVNTKDMDSTLS RASRAIKKTSKKVTRAFSFSKTP KRALRRALMTSHGSVEGRSPSSN DKHVMSRLSSTSSLAGIPSPSLV SLPSFFERRSHTLSRSTTHLI*
Human Melatonin 1a receptor _v4	7	prey94676	368	AGAGAGCTATCCAAGTTGATCCAAATTACGCTTATGCCTATACTCTATTAGGGC ATGAGTTTGTCTTAACTGAAGAATTGGACAAAGCATTAGCTTGTTTTCGAAATG CTATCAGAGTCAATCCTAGACATTATAATGCATGGTAAGTGGTAATGAAGTACA AAGACAAAGTCGTATTGATGGTGCTGGTACTTACTAATTTTTGTTGGGGATGGG TGTTTNTTGTGGTGNGTGGGGGGNTTGTGCTGGGNGCTNGGTCCGTNCNNGCGN NNNNTTNTNGAGTCNTNNNTACGCTGGNNGNNAGNAGNGNCNNNGTGNGTGTCN NNNGNGNGNNGCGGGGNNGGCGGTCNGATNCCGGTTNNNTTNTNNGGGGCGNNC CGNGNNCTNCNNCGNCAGGTNGGANGTNGTNTNNCCGCGNTNTNCNNNCTNNNT GCN	1106	RELSKLIQITLMPILY*GMSLS* LKNWTKH*LVFEMLSESILDIIM HGKW**STKTKSY*WCWYLLIFV GDGCXLWXVGGLCWXLGPXXRXX XESXXRWXXXXXXXVSXXXXGXG GXXPVXXXGAXRXLXRQVGXXXX AXXXLXA
Human Melatonin 1a receptor _v4	7	prey2109	369	TAAGGATCACCATTACTTTAAGTACTGCAAAATCTCAGCATTGGCTCTTCTGAA GATGGTGATGCATGCCAGATCGGGAGGCAATTTGGAAGTGATGGGTCTGATGCT AGGAAAGGTGGATGGTGAAACCATGATCATTATGGACAGTTTTGCTTTGCCTGT GGAGGGCACTGAAACCCGAGTAAATGCTCAGGCTGCTGCATATGAATACATGGC TGCATACATAGAAAATGCAAAACAGGTTGGCCGCCTTGAAAATGCAATCGGGTG GTATCATAGCCACCCTGGCTATGGCTGCTGGCTTTCTGGGATTGATGTTAGTAC TCAGATGCTCAATCAGCAGTTCCAGGAACCATTTGTAGCAGTGGTGATTGATCC AACAAGAACAATATCCGCAGGGAAAGTGAATCTTGGCGCCTTTAGGACATACCC AAAGGGCTACAAACCTCCTGATGAAGGACCTTCTGAGTACCAGACTATTCCACT TAATAAAATAGAAGATTTTGGTGTACACTGCAAACAATATTATGCCTTAGAAGT	1107	KDHHYFKYCKISALALLKMVMHA RSGGNLEVMGLMLGKVDGETMII MDSFALPVEGTETRVNAQAAAYE YMAAYIENAKQVGRLENAIGWYH SHPGYGCWLSGIDVSTQMLNQQF QEPFVAVVIDPTRTISAGKVNLG AFRTYPKGYKPPDEGPSEYQTIP LNKIEDFGVHCKQYYALEVSYFK SSLDRKLLELLWNKYWVNTLSSS SLLTNADYTTGQVFDLSEKLEQS

				CTCATATTTCAAATCCTCTTTGGATCGCAAATTGCTTGAGCTGTTGTGGAATAAATACTGGGTGAATACGTTGAGTTCTTCTAGCTTGCTTACTAATGCAGACTATACCACTGGTCAGGTCTTTGATTTGTCTGAAAAGTTAGAGCAGTCAGAAGCCCAGCTGGGACGAGGGAGTTTCATGTTGGGTTTAGAAACGCATGACCGAAAATCAGAAGACAAACTTGCCAAAGCTACAAGAGACAGCTGTAAAACTACCATAGAAGCTATCCATGGATTGATGTCTCAGGTTATTAAGGATAAACTGTTTAATCAAATTAACATCTCTTAA		EAQLGRGSFMLGLETHDRKSEDKLAKATRDSCKTTIEAIHGLMSQVIKDKLFNQINIS*
Human Melatonin 1a receptor_v4	7	prey94681	370	ATGGCGGCCGAAATCCACTCCAGGCCGCAGAGCAGCCGCCCGGTGCTGCTGAGCAAGATCGAGGGGCACCAGGACGCCGTCACGGCCGCGCTGCTCATCCCCAAGGAGGACGGCGTGATCACGGCCAGCGAGGACAGAACCATCCGGGTATGGCTGAAAAGAGACAGTGGTCAATACTGGCCCAGCATTTACCACACAATGGCCTCTCCTTGCTCTGCTATGGCTTACCATCATGACAGCAGACGGATATTTGTGGGCCAGGATAATGGAGCTGTAATGGAATTTCACGTTTCTGAAGATTTTAATAAAATGAACTTTATCAAGACCTACCCAGCTCATCAGAACCGGGTGTCTGCGATTATCTTCAGCTTGGCCACAGAGTGGGTGATCAGTACCGGCCACGACAAGTGTGTGAGCTGGATGTGCACGCGGAGCGGGAACATGCTCGGGAGGCACTTCTTCACGTCCTGGGCTTCGTGTCTGCAATATGACTTTGACACTCAGTATGCTTTCGTTGGTGATTATTCTGGGCAGATCACCCTGCTGAAGCTTGAACAGAACACGTGTTCAGTCATCACAACCCTCAAAGGACATGAAGGTAGTGTCGCCTGCCTCTGGTGGGACCCTATTCAGCGGTTACTCTTCTCAGGAGCATCTGACAACAGCATCATCATGTGGGACATCGGAGGAAGGAAAGGCCGGACGCTGTTACTTCAGGGCCATCATGACAAGGTGCAGTCGCTGTGCTACCTTCAGCTCACCAGGCAGCTCGTCTCCTGTTCCTCGGACGGCGGAATTGCAGTGTGGAACATGGATGTTAGCAGAGAAGAGGCTCCTCAGTGGTTGGAAAGTGATTCTTGTCAGAAATGTGAGCAGCCATTTTTCTGGAACATAAAGCAGATGTGGGACACCAAGACGCTGGGGCTAAGACAACATCACTGCAGGAAATGCGGGCAGGCTGTCTGCGGGAAGTGCAGCAGCAAGCGCTCAAGTTACCCAGTCATGGGCTTCGAGTTCCAAGTCCGGGTTTGTGATTCTTGTTACGACTCCATCAAAGATGAAGATCGGACTTCTCTAGCGACCTTTCATGAAGGAAAACATAACATTTCCCACATGTCCATGGACATTGCCAGGGGACTGATGGTGACCTGTGGGACCGACCGCATTGTAAAGATCTGGGACATGACACCTGTGGTGGGCTGCAGTCTGGCGACTGGGTTTTCTCCGCACTGA	1108	MAAEIHSRPQSSRPVLLSKIEGHQDAVTAALLIPKEDGVITASEDRTIRVWLKRDSGQYWPSIYHTMASPCSAMAYHHDSRRIFVGQDNGAVMEFHVSEDFNKMNFIKTYPAHQNRVSAIIFSLATEWVISTGHDKCVSWMCTRSGNMLGRHFFTSWASCLQYDFDTQYAFVGDYSGQITLLKLEQNTCSVITTLKGHEGSVACLWWDPIQRLLFSGASDNSIIMWDIGGRKGRTLLLQGHHDKVQSLCYLQLTRQLVSCSSDGGIAVWNMDVSREEAPQWLESDSCQKCEQPFFWNIKQMWDTKTLGLRQHHCRKCGQAVCGKCSSKRSSYPVMGFEFQVRVCDSCYDSIKDEDRTSLATFHEGKHNISHMSMDIARGLMVTCGTDRIVKIWDMTPVVGCSLATGFSPH*
Human Melatonin 1a receptor_v4	7	prey36832	371	CCGCAAAGTGAACGAGCTTCGGGCCTTTGTGAAAATGTGTAAGCAGGATCCGAGCGTTCTGTACACCGAGGAAATGCGCTTCCTGAGGGAGTGGGTGGAGAGCATAGGTGGTAAAGTACCACCTGCTACTCAGAAAGCTATATCAGAAGAAAATACCAAGGAAGAAAAACCTGATAGTAAGAAGGTGGAGGAAGACTTAAAGGCAGACGAACCATCAAGTGAGGAAAGTGATCTAGAAATTGATAAAGAAGGTGTGATTGAACCAGACACTGATGCTCCTCAAGAAATGGGAGATGAAAATGCGGAGATAACGGAGGAGATGATGGATCAGGCAAATGATAAAAAAGTGGCTGCTATTGAAGCCCTAAATGATGGTGAACTCCAGAAAGCCATTGACTTATTCACAGATGCCATCAAGCTGAATCCTCGCTTGGCCATTTTGTATGCCAAGAGGGCCAGTGTCTTCGTCAAATTACAGAAGCCAAA	1109	RKVNELRAFVKMCKQDPSVLYTEEMRFLREWVESIGGKVPPATQKAISEENTKEEKPDSKKVEEDLKADEPSSEESDLEIDKEGVIEPDTDAPQEMGDENAEITEEMMDQANDKKVAAIEALNDGELQKAIDLFTDAIKLNPRLAILYAKRASVFVKLQKPNAAIRDCDRAIEINPDSAQPYKWRGKAHRLLGHWEEAAHDLALACK

				TGCTGCCATCCGAGACTGTGACAGAGCCATTGAAATAAATCCTGATTCAGCTCA GCCTTACAAGTGGCGGGGAAAGCACACAGACTTCTAGGCCACTGGGAAGAAGC AGCCCATGATCTTGCCCTTGCCTGTAAATTGGATTATGATGAAGATGCTAGTGC AATGCTGAAAGAAGTTCAACCTAGGGCACAGAAAATTGCAGAACATCGGAGAAA GTATGAGCGAAAACGTGAAGAGCGAGAGATCAAAGAAAGAATAGAACGAGTTAA GAAGGCTCGAGAAGAGCATGAGAGAGCCCAGAGGGAGGAAGAAGCCAGACGACA GTCAGGAGCTCAGTATGGCTCTTTTCCAGGTGGCTTTCCTGGGGGAATGCCTGG TAATTTTCCCGGAGGAATGCCTGGAATGGGAGGGGGCATGCCTGGAATGGCTGG AATGCCTGGACTCAATGAAATTCTTAGTGATCCAGAGGTTCTTGCAGCCATGCA GGATCCAGAAGTTATGGTGGCTTTCCAGGATGTGGCTCAGAACCCAGCAAATAT GTCAAAATACCAGAGCAACCCAAAGGTTATGAATCTCATCAGTAAATTGTCAGC CAAATTTGGAGGTCAAGCGTAA		LDYDEDASAMLKEVQPRAQKIAE HRRKYERKREEREIKERIERVKK AREEHERAQREEEARRQSGAQYG SFPGGFPGGMPGNFPGGMPGMGG GMPGMAGMPGLNEILSDPEVLAA MQDPEVMVAFQDVAQNPANMSKY QSNPKVMNLISKLSAKFGGQA*
Human Melatonin 1a receptor _v4	7	prey79259	372	ATGGAGCCTAATGATAGTACCAGTACCGCTGTGGAGGAGCCTGACAGCTTGGAG GTGTTGGTGAAGACCTTGGACTCTCAAACTCGTACCTTTATTGTGGGGGCCCAG ATGAATGTAAAAGAGTTTAAGGAGCACATTGCTGCCTCTGTCAGCATCCCATCT GAAAAACAACGGCTCATTTACCAGGGACGAGTTCTGCAAGATGATAAGAAGCTT CAGGAATACAATGTTGGGGGAAAGGTTATCCACCTGGTGGAACGGGCTCCTCCT CAGACTCACCTCCCTTCTGGGGCATCTTCTGGGACGGGGTCTGCCTCAGCCACT CATGGTGGGGGATCCCCCCCTGGTACTCGGGGGCCTGGGGCCTCTGTTCATGAC CGGAATGCCAACAGCTATGTCATGGTTGGAACCTTCAATCTTCCTAGTGACGGC TCTGCTGTGGATGTTCACATCAACATGGAACAGGCCCCGATTCAGAGTGAGCCC CGGGTACGGCTGGTGATGGCTCAGCACATGATCAGGGATATACAGACCTTACTA TCCCGGATGGAGTGTCGAGGAGGGCCCCAACCGCAGCACAGTCAGCCGCCCCCG CAGCCACCGGCTGTGACCCCGGAGCCAGTAGCCTTGAGCTCTCAAACATCAGAA CCAGTTGAAAGTGAAGCACCTCCCCGGGAGCCCATGGAGGCAGAAGAAGTGGAG GAGCGTGCCCCAGCCCAGAACCCGGAGCTCACTCCTGGCCCAGCCCCAGCGGGC CCAACACCTGCCCCGGAAACAAATGCACCCAACCATCCTTCCCCTGCGGAGTAT GTCGAGGTGCTCCAGGAGCTACAGCGGCTGGAGAGTCGCCTCCAGCCCTTCTTG CAGCGCTACTACGAGGTTCTGGGTGCTGCTGCCACCACGGACTACAATAACAAT CACGAGGGCCGGGAGGAGGATCAGCGGTTGATCAACTTGGTAGGGGAGAGCCTG CGACTGCTGGGCAACACCTTTGTTGCACTGTCTGACCTGCGCTGCAATCTGGCC TGCACGCCCCCACGACACCTGCATGTGGTCCGGCCTATGTCTCACTACACCACC CCCATGGTGCTCCAGCAGGCAGCCATTCCCATACAGATCAATGTGGGAACCACT GTGACCATGACAGGAAATGGGACTCGGCCCCCCCCAACTCCCAATGCAGAGGCA CCTCCCCCTGGTCCTGGGCAGGCCTCATCCGTGGCTCCGTCTTCTACCAATGTC GAGTCCTCAGCTGAGGGGGCTCCCCCGCCAGGTCCAGCTCCCCCGCCAGCCACC AGCCACCCGAGGGTCATCCGGATTTCCCACCAGAGTGTGGAACCCGTGGTCATG ATGCACATGAACATTCAAGATTCTGGCACACAGCCTGGTGGTGTTCCGAGTGCT CCCACTGGCCCCCTGGGACCCCCTGGTCATGGCCAAACCCTGGGACAGCAGGTG	1110	MEPNDSTSTAVEEPDSLEVLVKT LDSQTRTFIVGAQMNVKEFKEHI AASVSIPSEKQRLIYQGRVLQDD KKLQEYNVGGKVIHLVERAPPQT HLPSGASSGTGSASATHGGGSPP GTRGPGASVHDRNANSYVMVGTF NLPSDGSAVDVHINMEQAPIQSE PRVRLVMAQHMIRDIQTLLSRME CRGGPQPQHSQPPPQPPAVTPEP VALSSQTSEPVESEAPPREPMEA EEVEERAPAQNPELTPGPAPAGP TPAPETNAPNHPSPAEYVEVLQE LQRLESRLQPFLQRYYEVLGAAA TTDYNNNHEGREEDQRLINLVGE SLRLLGNTFVALSDLRCNLACTP PRHLHVVRPMSHYTTPMVLQQAA IPIQINVGTTVTMTGNGTRPPPT PNAEAPPPGPGQASSVAPSSTNV ESSAEGAPPPGPAPPPATSHPRV IRISHQSVEPVVMMHMNIQDSGT QPGGVPSAPTGPLGPPGHGQTLG QQVPGFPTAPTRVVIARPTPPQA RPSHPGGPPVSGTLQGAGLGTNA SLAQMVSGLVGQLLMQPVLVAQG TPGMAPPPAPATASASAGTTNTA TTAGPAPGGPAQPPPTPQPSMAD LQFSQLLGNLLGPAGPGAGGSGV

				CCAGGCTTCCCAACAGCTCCAACCCGGGTGGTGATTGCCCGGCCCACTCCTCCA CAGGCTCGGCCTTCCCATCCTGGAGGGCCCCCAGTCTCTGGGACACTGCAGGGC GCCGGTCTGGGTACCAATGCCTCGTTGGCCCAGATGGTGAGCGGCCTTGTGGGG CAGCTTCTTATGCAGCCAGTCCTTGTGGCTCAGGGGACCCCAGGTATGGCTCCA CCGCCAGCCCCTGCCACTGCTTCTGCCAGTGCTGGCACCACCAACACAGCTACC ACAGCTGGCCCCGCTCCTGGGGGGCCTGCCCAGCCTCCACCCACCCCTCAACCC TCCATGGCTGATCTTCAGTTCTCTCAGCTTCTGGGGAACCTGCTAGGGCCTGCA GGGCCAGGGGCTGGAGGGTCTGGTGTGGCTTCTCCCACCATCACTGTGGCGATG CCTGGTGTCCCTGCCTTTCTCCAAGGCATGACTGACTTCTTGCAGGCAACACAG ACAGCCCCTCCACCACCCCCACCTCCTCCACCCCCACCACCTGCCCCAGAGCAG CAGACCATGCCCCCACCAGGCTCCCCTTCTGGTGGCGCAGGGAGTCCTGGAGGC CTGGGTCTTGAGAGCCTGTCACCGGAGTTTTTTACCTCAGTGGTGCAGGGTGTG CTCAGCTCCCTGCTGGGCTCCCTGGGGGCTCGGGCTGGCAGCAGTGAAAGTATT GCTGCCTTCATACAACGCCTCAGTGGATCCAGCAACATCTTTGAGCCTGGAGCT GATGGGGCCCTTGGATTCTTTGGGGCCTTGCTTTCTCTTCTGTGCCAGAACTTC TCTATGGTGGACGTAGTGATGCTTCTCCATGGGCATTTCCAGCCACTACAACGG CTCCAGCCCCAGCTGCGATCCTTCTTCCACCAGCACTACCTGGGTGGTCAGGAG CCCACACCCAGTAACATCCGGATGGCAACCCACACATTGATCACGGGGCTAGAA GAGTATGTGCGGGAGAGTTTTTCCTTGGTGCAGGTTCAGCCAGGTGTGGACATC ATCCGGACAAACCTGGAATTTCTCCAAGAGCAGTTTAATAGCATTGCTGCGCAT GTGCTGCATTGCACAGATAGTGGATTTGGGGCCCGGTTGCTGGAGTTGTGTAAC CAAGGCCTGTTTGAATGCCTGGCCCTAAACCTGCACTGCTTGGGGGGACAGCAG ATGGAGCTTGCTGCTGTTATCAATGGCCGAATTCGTCGTATGTCTCGTGGGGTG AATCCCTCCTTGGTGAGCTGGCTGACCACTATGATGGGACTGAGGCTTCAGGTG GTACTGGAGCACATGCCTGTAGGCCCTGATGCCATTCTCAGATACGTTCGCAGG GTTGGTGATCCCCCCCAGCCACTTCCTGAGGAGCCAATGGAAGTTCAGGGAGCA GAAAGAGCTTCCCCTGAGCCTCAGCGGGAGAATGCTTCCCCAGCCCCTGGAACA ACAGCAGAAGAGGCCATGTCCCGAGGTCCACCTCCTGCTCCTGAGGGGGGCTCC CGGGATGAACAGGATGGAGCTTCAGCTGAGACAGAACCTTGGGCAGCTGCAGTC CCCCCAGAATGGGTCCCTATTATCCAGCAGGACATTCAGAGCCAGCGGAAGGTG AAACCGCAGCCCCCTCTGAGTGATGCCTACCTCAGTGGTATGCCTGCCAAGAGA CGCAAGACGATGCAGGGTGAGGGCCCCCAGCTGCTTCTCTCAGAGGCTGTGAGC CGGGCAGCTAAGGCAGCCGGAGCTCGGCCCCTGACGAGCCCCGAGAGCCTGAGC CGGGACCTGGAGGCACCAGAGGTTCAGGAGAGCTACAGGCAGCAGCTCCGGTCT GATATACAAAAACGACTGCAGGAAGACCCCAACTACAGTCCCCAGCGCTTCCCC AATGCCCAGCGGGCCTTTGCTGATGATCCTTAG		ASPTITVAMPGVPAFLQGMTDFL QATQTAPPPPPPPPPPPPAPEQQ TMPPPGSPSGGAGSPGGLGLESL SPEFFTSVVQGVLSSLLGSLGAR AGSSESIAAFIQRLSGSSNIFEP GADGALGFFGALLSLLCQNFSMV DVVMLLHGHFQPLQRLQPQLRSF FHQHYLGGQEPTPSNIRMATHTL ITGLEEYVRESFSLVQVQPGVDI IRTNLEFLQEQFNSIAAHVLHCT DSGFGARLLELCNQGLFECLALN LHCLGGQQMELAAVINGRIRRMS RGVNPSLVSWLTTMMGLRLQVVL EHMPVGPDAILRYVRRVGDPPQP LPEEPMEVQGAERASPEPQRENA SPAPGTTAEEAMSRGPPPAPEGG SRDEQDGASAETEPWAAAVPPEW VPIIQQDIQSQRKVKPQPPLSDA YLSGMPAKRRKTMQGEGPQLLLS EAVSRAAKAAGARPLTSPESLSR DLEAPEVQESYRQQLRSDIQKRL QEDPNYSPQRFPNAQRAFADDP*
Human Melatonin 1a	7	prey94692	373	CCCTCCCGCCTCAGCTACCCAAGTAGTTTGCTTTGTTTTTTTAATCTAAAAGC AAAGGTGTGAGCTTGATAAAGAAGTCTTGTGGTGAAGCAAAATGAAAAAATCTC AACCTTGAAAGCATTTAAATTATCTGAAGCAATTCTATAGCAAGTCTTTATAAT	1111	PSRLSYPSSLLCFF*SKSKGVSL IKKSCGEAK*KNLNLESI*II*S NSIASLYNSSTNHVKN**DMAVF

receptor _v4				TCCTCTACAAATCATGTAAAAAATTGATAAGACATGGCAGTATTTGCCCTGNAA AGNCTGTGNGACNACGGGACNTGNCGGNGTTGTTTAGCTTGNCGGNAAGGNGGG GGTGAGNGGGGAGGNTGGGGAGAGGGGGGGGGGGGCANNGGGGGGNGGGGGGC AGGNGGNGNGGNGCGGGGGNGGGNGAGANGANAGNGGGGGGNGNGAGNGNGGGG GNGGGAGAGAAGGGGGTNGGNNGGGGGCNTGGNGCNGNGGGGNGANGGCTTAGC GGAGNCGGGGGGNNGGTNNTN		ALXXLXDXGTXRXCLAXRXGGGE XGGWGRGGGGXXGXGGRXXGAGX GEXXXGGXXXGXGEKGVGXGXGA XGXXLSGXGGXVX
Human Melatoni n 1a receptor _v4	7	prey94694	374	TCCCTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTAT TTTTAAATCTTATTTTACTATGNTATTTTAGATTTGGNGGGGCATGNGTGGGGG GGGGGNCAAGGGGGTGTTTGGCATGACTGNTGGGNGGTGGGGGTTGGGGGNTG NTGCCGTGGGCACTGGGGNGNGGNGCCCNGGCGGGCCGGNGTCGGNNGGNGGNG AGNGGTAGATNGGCCTGCGAGNCCNCNGGGGNNGNGNTTGTNNTGGNGCTNAGT NGNGGANNCGNNTAN	1112	SLXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXX XXYF*ILFYYXILDLXGHXWGGG QGGVWHDXWXGGGWGXXPWALGX GAXGGRXGXXXXGRXACEXXGXX XVXXLSXGXXX
Human Melatoni n 1a receptor _v4	7	prey79129	375	ACATGAGTTACCCACCAAACAGGATGGCAGTGGTGTCAAGGGCTATGAAGAAAA ACTTAACGGGAATCTCAGGCCTCATGGAGACAACAGGACTGCTGGAAGGCCAGG CAAAGAAAACATCAATGATGAGCCTGTGGATATGAGTGCTAGACGGAGTGAGCC AGAGCGAGGAAGGCTAACTCCCTCACCAGACATCATTGTTTTGTCTGACAATGA GGCTTCCAGTCCCCGTTCCAGTTCCAGAATGGAAGAAAGACTCAAAGCAGCCAA CTTAGAGATGTTTAAGGGGAAAGGCATTGAGGAGCGGCAGCAGCTTATCAAGCA GCTGAGGGATGAGCTACGATTGGAAGAAGCCCGACTGGTCCTGTTAAAGAAACT GAGACAGAGTCAGCTACAGAAAGAGAATGTGGTCCAGAAGACTCCAGTTGTACA GAATGCAGCATCTATTGTTCAGCCATCTCCTGCCCATGTGGGACAGCAGGGCCT ATCTAAGCTTCCCTCTCGGCCTGGGGCCCAAGGGGTTGAACCTCAAAATTTGAG AACATTACAGGGTCACAGTGTCATCCGTTCAGCTACCAATACCACCCTTCCACA CATGTTGATGTCTCAACGTGTTATTGCACCAAACCCAGCCCAGCTACAGGGTCA GCGGGGCCCGCCTAAGCCTGGCCTTGTACGCACCACAACACCCAACATGAATCC CGCCATCAATTATCAACCGCAGTCAAGTTCTTCTGTTCCATGTCAGCGTACAAC ATCCTCTGCCATCTATATGAACCTTGCTTCTCATATCCAGCCAGGGACGGTGAA CAGAGTGTCCTCGCCACTTCCTAGCCCCAGCGCCATGACTGATGCTGCCAACTC ACAGGCTGCAGCCAAATTGGCTCTTCGCAAACAGCTGGAAAAGACACTCCTGGA GATCCCACCCCCTAAACCTCCTGCTCCCTTACTTCATTTCTTGCCTAGTGCAGC CAATAGCGAGTTCATCTACATGGTAGGCTTGGAAGAAGTCGTACAGAGTGTCAT TGACAGCCAAGGCAAAAGCTGTGCCTCACTTCTGCGGGTTGAACCCTTTGTATG TGCCCAGTGCCGCACAGATTTCACCCCTCACTGGAAGCAAGAAAAGAATGGTAA GATTCTATGTGAGCAGTGTATGACCTCCAACCAGAAAAAGGCTCTAAAAGCTGA ACACACCAACCGGCTGAAAAATGCATTTGTGAAAGCCCTACAGCAGGAACAGGA AATTGAACAGCGATTACAGCAGCAGGCAGCCCTCTCCCCCACTACGGCTCCAGC	1113	HELPTKQDGSGVKGYEEKLNGNL RPHGDNRTAGRPGKENINDEPVD MSARRSEPERGRLTPSPDIIVLS DNEASSPRSSSRMEERLKAANLE MFKGKGIEERQQLIKQLRDELRL EEARLVLLKKLRQSQLQKENVVQ KTPVVQNAASIVQPSPAHVGQQG LSKLPSRPGAQGVEPQNLRTLQG HSVIRSATNTTLPHMLMSQRVIA PNPAQLQGQRGPPKPGLVRTTTP NMNPAINYQPQSSSSVPCQRTTS SAIYMNLASHIQPGTVNRVSSPL PSPSAMTDAANSQAAAKLALRKQ LEKTLLEIPPPKPPAPLLHFLPS AANSEFIYMVGLEEVVQSVIDSQ GKSCASLLRVEPFVCAQCRTDFT PHWKQEKNGKILCEQCMTSNQKK ALKAEHTNRLKNAFVKALQQEQE IEQRLQQQAALSPTTAPAVSSVS KQETIMRHHTLRQAPQPQSSLQR GIPTSARSMLSNFAQAPQLSVPG GLLGMPGVNIAYLNTGIGGHKGP SLADRQREYLLDMIPPRSISQSI SGQK*

				TGTGTCCAGTGTCAGTAAACAAGAGACCATCATGAGACATCATACGCTTCGGCAGGCTCCACAGCCCCAGAGCAGCCTCCAGCGTGGCATACCCACATCTGCCCGCTCCATGCTTTCAAACTTTGCACAGGCACCCCAGTTGTCTGTGCCAGGTGGCCTCCTTGGTATGCCAGGTGTCAACATTGCATACTTGAATACTGGCATCGGAGGACACAAAGGCCCCAGTTTGGCAGACCGACAGCGTGAATACCTTTTAGACATGATCCCTCCCCGGTCTATATCGCAGTCCATCAGTGGACAGAAATAA		
Human Melatonin 1a receptor _v4	7	prey94712	376	GCGGNTTTANGGANGAANNTATAGGGNNCACCGNATGGANGCANATNCNAGACATTCACAACTTTTCTGGGTGCCCCNTACACGGNCATATCCCCACCTGCTGCCGCATCCACANCCCCCANGGCTGCTTTATCNTCNANGAACCTGCTTTCTGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNAGNCTNTCCGANTATCTTGGTANTTCAGGTNCACACGACCNTGCCTGGCTNNTTNTTAGNNTTTTTAANTNNNNACNGCNNTTTAGGGGTGNGNNGNNAGGAGAGNGGGNAGGNNNNGCCCTGCAGTNGAGAGAGGNNGGNGNAGANGGGNGNGAANNGAGG	1114	AXLXXXX*GXPXGXXXXTFTTFLGAPYTXISPPAAASTXPXAALSSXNLLSXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXRXSWXFRXTRPCLAXX*XF*XXTAX*GXXXRRXGRXXPAVERGXXRXXXXE
Human Melatonin 1a receptor _v4	7	prey3702	377	AGCAGATTCTGCAATGCAGCCCTGCCAACTGA	1115	QILQCSPAN*
Human Melatonin 1a receptor _v4	7	prey94718	378	AGGAAAATTTTAAAAATGTTTCAAAGGGAAGATTGTGATAAGAAAGTATTAGAAGCAACTCTTTATTAAGTAAAAGGATAGTTATTTAGTATTTTCATTTTAGGTGACTTAAAAAGTATGTATATTTTAATATGCAAATATAAAGAATTAGATATTTTACATTGTTCTAAAAAGTCTCTGAAAACCCATGCGCATTACAGATGATCTAAACTTGAACTAGCCACATTTTAAGGGTTTACTTGTCACAGTGGTTGGTGGCTTTCATCTTGATAGTGCAGCTCTAGATTGTCCTGTCTCATCTTTCANATCCCANCTTGCCATTTTTCANGGGGCCCCTTCTNNTGATCCCCCTGCCTGTCAGGNTTCCCTTTTAAAGAGCATTTTTNACCNGGNGGGANNTTNATNTTTGC	1116	RKILKMFQREDCDKKVLEATLY*VKG*LFSIFILGDLKSMYILICKYKELDILHCSKKSLKTHAHYR*SKLELATF*GFTCHSGWWLSS**CSSRLSCLIFXIPXCHFSXGPFX*SPCLSGFPFKEHFXPGGXXXF
Human Melatonin 1a receptor _v4	7	prey2415	379	CAGCAAAGGCGTCAAACTGGTGTCCATCGGAGCCGAAGAAATCGTGGATGGGAATGTGAAGATGACCCTGGGCATGATCTGGACCATCATCCTGCGCTTTGCCATCCAGGACATCTCCGTGGAAGAGACTTCAGCCAAGGAAGGGCTGCTCCTGTGGTGTCAGAGAAAGACAGCCCCTTACAAAAATGTCAACATCCAGAACTTCCACATAAGCTGGAAGGATGGCCTCGGCTTCTGTGCTTTGATCCACCGACACCGGCCCGAGCTGATTGACTACGGGAAGCTGCGGAAGGATGATCCACTCACAAATCTGAATACGGCTTTTGACGTGGCAGAGAAGTACCTGGACATCCCCAAGATGCTGGATGCCGAAGACATCGTTGGAACTGCCCGACCGGATGAGAAAGCCATCATGACTTACGTGTCTAGCTTCTACCACGCCTTCTCTGGAGCCCAGAAGGCGGAGACAGCAGCCAATCGCATCTGCAAGGTGTTGGCCGTCAACCAGGAGAACGAGCAGCTTATGGAAGACTACGAGAAGCTGCCCAGTGATCTGTTGGAGTGGATCCGCCGCACAATCCCGTGGCTGGAGAACCGGGTGCCCGAGAACACCATGCATGCCATGCAACAGAAGCTGGAGGACTTCCG	1117	SKGVKLVSIGAEEIVDGNVKMTLGMIWTIILRFAIQDISVEETSAKEGLLLWCQRKTAPYKNVNIQNFHISWKDGLGFCALIHRHRPELIDYGKLRKDDPLTNLNTAFDVAEKYLDIPKMLDAEDIVGTARPDEKAIMTYVSSFYHAFSGAQKAETAANRICKVLAVNQENEQLMEDYEKLASDLLEWIRRTIPWLENRVPENTMHAMQQKLEDFRDYRRLHKPPKVQEKCQLEINFNTLQTKLRLSNRPAFMPSEGRMVSDINNAWGCLEQVEKG

				GGACTACCGGCGCCTGCACAAGCCGCCCAAGGTGCAGGAGAAGTGCCAGCTGGA GATCAACTTCAACACGCTGCAGACCAAGCTGCGGCTCAGCAACCGGCCTGCCTT CATGCCCTCTGAGGGCAGGATGGTCTCGGACATCAACAATGCCTGGGGCTGCCT GGAGCAGGTGGAGAAGGGCTATGAGGAGTGGTTGCTGAATGAGATCCGGAGGCT GGAGCGACTGGACCACCTGGCAGAGAAGTTCCGGCAGAAGGCCTCCATCCACGA GGCCTGGACTGACGGCAAAGAGGCCATGCTGCGACAGAAGGACTATGAGACCGC CACCCTCTCGGAGATCAAGGCCCTGCTCAAGAAGCATGAGGCCTTCGAGAGTGA CCTGGCTGCCCACCAGGACCGTGTGGAGCAGATTGCCGCCATCGCACAGGAGCT CAATGAGCTGGACTATTATGACTCACCCAGTGTCAACGCCCGTTGCCAAAAGAT CTGTGACCAGTGGGACAATCTGGGGGCCCTAACTCAGAAGCGAAGGGAAGCTCT GGAGCGGACCGAGAAACTGCTGGAGACCATTGACCAGCTGTACTTGGAGTATGC CAAGCGGGCTGCACCCTTCAACAACTGGATGGAGGGGGCCATGGAGGACCTGCA GGACACCTTCATTGTGCACACCATTGAGGAGATCCAGGGACTGACCACAGCCCA TGAGCAGTTCAAGGCCACCCTCCCTGATGCCGACAAGGAGCGCCTGGCCATCCT GGGCATCCACAATGAGGTGTCCAAGATTGTCCAGACCTACCACGTCAATATGGC GGGCACCAACCCCTACACAACCATCACGCCTCAGGAGATCAATGGCAAATGGGA CCACGTGCGGCAGCTGGTGCCTCGGAGGGACCAAGCTCTGACGGAGGAGCATGC CCGACAGCAGCACAATGAGAGGCTACGCAAGCAGTTTGGAGCCCAGGCCAATGT CATCGGGCCCTGGATCCAGACCAAGATGGAGGAGATCGGGAGGATCTCCATTGA GATGCATGGGACCCTGGAGGACCAGCTCAGCCACCTGCGGCAGTATGAGAAGAG CATCGTCAACTACAAGCCAAAGATTGATCAGCTGGAGGGCGACCACCAGCTCAT CCAGGAGGCGCTCATCTTCGACAACAAGCACACCAACTACACCATGGAGCACAT CCGTGTGGGCTGGGAGCAGCTGCTCACCACCATCGCCAGGACCATCAATGAGGT AGAGAACCAGATCCTGACCCGGGATGCCAAGGGCATCAGCCAGGAGCAGATGAA TGAGTTCCGGGCCTCCTTCAACCACTTTGACCGGGATCACTCCGGCACACTGGG TCCCGAGGAGTTCAAAGCCTGCCTCATCAGCTTGGGTTATGATATTGGCAACGA CCCCCAGGGAGAAGCAGAATTTGCCCGCATCATGAGCATTGTGGACCCCAACCG CCTGGGGGTAGTGACATTCCAGGCCTTCATTGACTTCATGTCCCGCGAGACAGC CGACACAGATACAGCAGACCAAGTCATGGCTTCCTTCAAGATCCTGGCTGGGGA CAAGAACTACATTACCATGGACGAGCTGCGCCGCGAGCTGCCACCCGACCAGGC TGAGTACTGCATCGCGCGGATGGCCCCCTACACCGGCCCCGACTCCGTGCCAGG TGCTCTGGACTACATGTCCTTCTCCACGGCGCTGTACGGCGAGAGTGACCTCTA A		YEEWLLNEIRRLERLDHLAEKFR QKASIHEAWTDGKEAMLRQKDYE TATLSEIKALLKKHEAFESDLAA HQDRVEQIAAIAQELNELDYYDS PSVNARCQKICDQWDNLGALTQK RREALERTEKLLETIDQLYLEYA KRAAPFNNWMEGAMEDLQDTFIV HTIEEIQGLTTAHEQFKATLPDA DKERLAILGIHNEVSKIVQTYHV NMAGTNPYTTITPQEINGKWDHV RQLVPRRDQALTEEHARQQHNER LRKQFGAQANVIGPWIQTKMEEI GRISIEMHGTLEDQLSHLRQYEK SIVNYKPKIDQLEGDHQLIQEAL IFDNKHTNYTMEHIRVGWEQLLT TIARTINEVENQILTRDAKGISQ EQMNEFRASFNHFDRDHSGTLGP EEFKACLISLGYDIGNDPQGEAE FARIMSIVDPNRLGVVTFQAFID FMSRETADTDTADQVMASFKILA GDKNYITMDELRRELPPDQAEYC IARMAPYTGPDSVPGALDYMSFS TALYGESDL*
Human Melatonin 1a receptor _v4	7	prey94722	380	AGATATATTAATAAAATCTGTGGAATCTTTAATTGAGCATAATGGTGGCTGTTA TTTTAACTTGAGGCTTTTTGTTGAGCTGGATTGGAAGTGCAACTTATTAGAAAT TACAGTGTATTTATTCCTATTTCTTGTTCTTTATGTGAGAGAAGATATACTTTA GTAGACTGAATACTTCAGAGCTGTATCTCATTTACCAATAAAATGTGAAAACAG TGGTAAATTCCTTCACTTGGGCTACCATTGTACAGGCCTATTTTAATGGTATAG TTTGATATCCTTAATGTTAAAAGCAATATAGNTTAAAGAGGCTGGTNAATTANA	1118	RYINKICGIFN*A*WWLLF*LEA FC*AGLEVQLIRNYSVFIPISCS LCERRYTLVD*ILQSCISFTNKM *KQW*IPSLGLPLYRPILMV*FD ILNVKSNIX*RGWXIXIXQYXXV FXLXXXXGVWXLPXXXX

				ATTTTNCAATATNNTGNAGTTTTTTTNCTNTNNCNGNGNNTNGGGGTGTGGTGN CTNCCTNCGNGNNGGGNG		
Human Melatonin 1a receptor_v4	7	prey94724	381	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNTGGACTTTGTACTTTTTCAAATCATATTTAATTATTT CTTGATCTTTACTCAAAGAATTATTCTGCGCTAAATTTGCAACATTAAACAATA ATTAAGCCTGGATCCGATAAGTTATTGGGTGACTAGAACCTACAACACAATTTA TTTTTAATTTAAACTCTCAAGTCTGATTAAACTTGGGGGAAAAACTGAACATTC AGGTGATATTTTAAATTTTCTTTGTGACT	1119	XXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXGLCTFSNHI *LFLDLYSKNYSALNLQH*TIIK PGSDKLLGD*NLQHNLFLI*TLK SD*TWGKN*TFR*YFKFSL*
Human Melatonin 1a receptor_v4	7	prey94732	382	CTGANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNGCACCTGGCCTCAGATTTTTGATACTCTTAAACCTTCT GATCCTTAGTTTCTCTCTCCAAAATACTCTTTCTAGGTTAAAAAAAAAAAGGCT NTTATNTTTGGNGCTNTGTAAATGAAAATGTTTTTTAGGTTTTNTTGATTTAAC AATAAANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNAAAGTGCTAAGTAGGATTACGGGCGTTA NCCACCACNCCCGGNTGTAANANTN	1120	LXXXXXXXXXXXXXXXXXXXXXX XXXXXYXXXXXXXXXXXXXTWPQ IFDTLKPSDP*FLSPKYSF*VKK KKAXXFGAX*MKMFFRFX*FNNK XXXXXXXXXXXXXXXXXXXXXXX XXKC*VGLRALXTTPGCXX
Human Melatonin 1a receptor_v4	7	prey94734	383	AAGCTGCTCTTTGAAATATTCAAGAAAATTGAAATTATAGTCAGTATAGATACG ATATTATAGTCAGTATAGTGTTAACTGCACTTACTGAAAAAAAGTGTACTTGGA AATTATAAGCATCATTTTTCTTAATATTCAGTTAGAATAACTCAATTCCAAAAA GTANTAAACATGTGAATTAAACATTGCTTATTTTNTGCTCCTCTCATTTCCNTA AAGGNCNATGGATTGGGGNATAGGTGGNGCNANTGGGAAGNTNTCGGNGCGGGN CCGTNGCGGGCGGGGCNGTCTNTCNGGTGGACGGGGGGGGCGGGGGGCCCNCG CGNACCCGGNNCNGTNGNGCNGGGGTGNGGGGNGNNNGNGNNNAGCNTNNNCGG GTGNGGCGTCNCGGGCNCGCGNTCGTCGAANNNGGGTGNNTNCNNCGCNNNNNN GGGGNCGNGNGNT	1121	KLLFEIFKKIEIIVSIDTIL*SV *C*LHLLKKSVLGNYKHHFS*YS VRITQFQKVXNM*IKHCLFXAPL ISXKXXGLGXRWXXWEXXGAGPX RAGXSXXWTGGGGGPXRTRXXXA GVXGXXXXXXRVXRXGXAXVEXG XXXRXXGXXX
Human Melatonin 1a receptor_v4	7	prey94735	384	ACCACTACGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTNCCCCNGGCGCAATTTNT TTTATATGNNAANAAATGATTTGGTTTTTGGGGAGGGANGATGGTGGGGGGGG GGANGGGGGGNTGGGGGNGGTGGTGNGGTNTGTGTTGGGGTNCCGTGGGNNCCC NGNGGGCGNNGCTCAGCCNNCGGTNGGGCGCGTANGGGNGCTNGNGCGCGGAGN NNGCGGGACGCGNGGCGTNCCNCCCCCCGNNTGNCGCGGGGTGGGNGCNCNTCN GNGTTGCCCGGGGGAGCACGGNNGCGTNTCGTCGGCGNNGTNGGATNGTNCGNN ACCNNGGCGGNGNGTCNGGGGGCCGGGGNGGGNCAANGNNT	1122	TTTXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXX XXXPGAIXFIXXXMIWFLGRXDG GGGGXGXGGGGXVCVGVPWXPXG RXSAXGXARXGAXARXXRDAXRX XPRXXRGGXXSXLPGGARXRXVG XVGXXXTXAXXXGAGXGQX
Human Melatonin	7	prey94736	385	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGATTTTAGTTTTTTTTAAGCAAAG	1123	XXXXXXXXXXXXXXXXXXXXXXX XXXXXILVFF*AKLILLSTSL*T

n 1a receptor _v4				TTAATACTCTTGTCAACATCTTTATAAACTTTGCCACTTAGCATTTATTTCCTT TTAATCCTTGGGAACACCTGTGTTCTCTGTGTGTGATTTCCAAGGCTTTGGGAC AGCAGGGGGCTGTAAGTAAAGAGAAGCAGGACTTGCTGCCTTCCAGGCTAGGCT CCCGCTCTTCCCAGGCCCATGGGCCACTCACAGATCTGGAGTGTTGTCACCTCC CGAAGGGNNACATACCTCTGAGTTGNCACTGAAGTNCCATTANTAAGGNTNGAC ATGATTGGTTTNNTNGGNACANTTTTTTTAN		LPLSIYFLLILGNTCVLCV*FPR LWDSRGL*VKRSRTCCLPG*APA LPRPMGHSQIWSVVTSRRXTYL* VXTEVPLXRXDMIGXXGTXFL
Human Melatoni n 1a receptor _v4	7	prey94741	386	CTGGTGTGGCTTTATTTTTAAAAATATTTTTTGTAATAGTACACTTGTGTTTAA CATAGAATGTTGACTTAGATAAATGATGAGGAAGTTATAAATAATTGGAGTAGC ATAACTTTATTATTTGGAAATAAAAGTATTATGTACATATATTAGTAAAATGAA ATGCACCTGATTCAAGGTATCATCTANGTAAATTCTGTAAGGTACCATATAGGT AAATTCTTAAATCATTCTTCAGATGATTTAATCTAATCATACTGAGTTGCACTA TAGTTTTTATAGAGACTTGTAGCAGTTATCTTATAANTATCCCTCGTATCTATT AAAAACCGGGTNAAGAGTTTATATTGGGACTTAGAGGGGNNNAGGGGNNCNANN CACCNANGCAA	1124	LVWLYF*KYFL**YTCV*HRMLT *INDEEVINNWSSITLLFGNKSI MYIY**NEMHLIQGIIXVNSVRY HIGKFLNHSSDDLI*SY*VAL*F L*RLVAVIL*XSLVSIKNRVKSL YWDLEGXRGXXHXX
Human Melatoni n 1a receptor _v4	7	prey94743	387	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNACTGATTATNTTATTTACACATGAAAANACCAGGGACTT AGAANGGTTANGGGGGGCTTTCCTCNNTGTTTGTACANGTAAAATGTNNNANCG GNGGNACCNATNNNNNACNTGNNNCACAGGGNCCCCTTTTTTGCTGTTGNNNNC TGAGGGGGGANGGTNGCNCNNACCNTTTNGTGTGNGNNNTGTNGGNGGGNTGGN TNGGGGNGNGNCGGGGCTGTNTGNAGNTTNAGTGTCCNNGAGNNCNNNNTGTTC NNNGGTGGGGGNGGGNNCTGN	1125	XXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXTDYXIYT*KX QGLRXVXGGFPXCLYX*NVXXXX PXXXXXHRXPFFAVXX*GGXVAX TXXCXXCXXXGXGXXGAVXXXSV XEXXXFXGGGGXX
Human Melatoni n 1a receptor _v4	7	prey3621	388	CACGTCGGACAACGGCGCTGCCCTCATTTCCGCCCCCGAACAAGGTGGCAGCAA CGGCCCCTTTCTGTGTGGGAAGCAGACCACGTTTGAAGGAGGGATGAGGGAGCC TGCCCTCGCATGGTGGCCAGGGCACGTCACTGCAGGCCAGGTGAGCCACCAGCT GGGCAGCATCATGGACCTCTTCACCACCAGCCTGGCCCTTGCGGGCCTGACGCC GCCCAGCGACAGGGCCATTGATGGCCTCAACCTCCTCCCCACCCTCCTGCAGGG CCGGCTGATGGACAGGCCTATCTTCTATTACCGTGGCGACACGCTGATGGCGGC CACCCTCGGGCAGCACAAGGCTCACTTCTGGACCTGGACCAACTCCTGGGAGAA CTTCAGACAGGGCATTGATTTCTGCCCTGGGCAGAACGTTTCAGGGGTCACAAC TCACAATCTGGAAGACCACACGAAGCTGCCCCTGATCTTCCACCTGGGACGGGA CCCAGGGGAGAGGTTCCCCCTCAGCTTTGCCAGCGCCGAGTACCAGGAGGCCCT CAGCAGGATCACCTCGGTCGTCCAGCAGCACCAGGAAGCCTTGGTCCCCGCGCA GCCCCAGCTCAACGTGTGCAACTGGGCGGTCATGAACTGGGCACCTCCGGGCTG TGAAAAGTTAGGGAAGTGTCTGACACCTCCAGAATCCATTCCCAAGAAGTGCCT CTGGTCCCACTAG	1126	TSDNGAALISAPEQGGSNGPFLC GKQTTFEGGMREPALAWWPGHVT AGQVSHQLGSIMDLFTTSLALAG LTPPSDRAIDGLNLLPTLLQGRL MDRPIFYYRGDTLMAATLGQHKA HFWTWTNSWENFRQGIDFCPGQN VSGVTTHNLEDHTKLPLIFHLGR DPGERFPLSFASAEYQEALSRIT SVVQQHQEALVPAQPQLNVCNWA VMNWAPPGCEKLGKCLTPPESIP KKCLWSH*
Human Melatoni	7	prey94747	389	TTTGTACTGATCACCTACCTTCAACAATTCATGGATAATCATCTAACTTTCCCA ATTATTTTGAAGTAAACTTAGGCATCATGTTATTACTTTAGTAGATATTTNTAA	1127	FVLITYLQQFMDNHLTFPIILK* T*ASCYYFSRYX*VCTSFFFXXX

n 1a receptor _v4				GTATGTACTTCTTTTTTTTTTTTNNAAANGGNNTTTGNTTTTTAGGGGGGCGGC GNNAGGGGGGGNGGGGGGTNGGTGGGGGAGTTGGGGGGGGGCCGNGGGGNGG GTGGCNNGGGGAAGGGGGGGGGGGGGGNCNGGNGTGNGGNNGTNTNTNCCNGC TNNGNGNCGTGGNGGNGGGGAGNNGGGCGGCGGGGGCANGGGNGCGGATCGGCN TGCGCAAACCGCNGGNGGAGGGCGCGGGNGNNGGCGNGCGNGGCGGGNGCGNGG GTGNGCNGNNGGGGGTCGNGNNCGCCTCGAGGGNAGGGNGNNGAGNGTCCNNNTG CGNNNGNGACGTNGGGGGGGCGCGGGGNNGTGTTGCGGGCAGGNGGGGGGGGNG CGTGGGTG		XFXF*GGGXRGGGGVGGGSWGGA XGXVAXGRGGGGXXXXXVXXXXX XWXXGXGRRGXGXGSACANRXXR ARXXAXXAGAXVXXXGSXXPRGX GXEXPXRXXRXGGAGXCCGQXGG XRG
Human Melatoni n 1a receptor _v4	7	prey3604	390	CGACACGAGACGCTTCTCGGCAGACGCAGCTCGATTCCAGATAGGAAAAAGGAA ATATGACTTTGATTCTTCGGAGGTGCTTCAGGGACTGGACTTTTTTGGAAACAA GAAGTCTGTCCCAGGTGTGTGTGGAGCATCACAAACACATCAGAAGCCCCAAAA TGGAGAGAAAAAAGAAGAGAGCCTAACTGAAAGGAAGAGGGAGCAGAGCAAGAA AAAAAGGAAGACGATGACTTCAGAAATTGCTTCCCAAGAAGAAGGTGCTACTAT ACAGTGGATGTCATCTGTAGAAGCAAAGATTGAAGACAAAAAAGTTCAGAGAGA AAGTAAACTAACTTCCGGAAAGTTGGAGAATCTCAGAAAAGAAAAGATAAACTT CTTGCGGAATAAACACAAAATTCACGTCCAAGGAACCGATCTTCCTGACCCAAT TGCTACATTTCAGCAACTTGACCAGGAATATAAAATCAATTCTCGACTACTTCA GAACATTCTAGATGCAGGTTTCCAAATGCCTACGCCAATCCAAATGCAAGCCAT CCCAGTTATGCTGCATGGTCGGGAACTTCTGGCTTCTGCTCCAACTGGATCTGG AAAAACATTAGCTTTTAGCATTCCTATTTTAATGCAGCTGAAACAACCCGCAAA TAAAGGCTTCAGAGCCCTGATTATATCACCAACACGAGAACTTGCCAGCCAGAT TCACAGAGAGTTAATAAAAATTTCTGAGGGAACAGGATTCAGGATACACATGAT CCACAAAGCAGCAGTGGCAGCCAAGAAATTTGGACCTAAATCATCTAAAAAGTT TGATATTCTTGTGACTACTCCAAATCGACTAATCTATTTATTAAAGCAAGATCC CCCCGGAATCGACCTAGCAAGTGTTGAGTGGCTTGTAGTAGACGAATCAGATAA ACTGTTGAAGATGCAAACTGGTTCAGAGACCAGCTGGCTTCCATTTTCCTGGCC TGCACATCCCACAAGGTCCGAAGAGCCTATGTTCAGTGCAACTTTTGCATATGA TGTTGAACAGTGGTGCAACTCAACCTGGACAATGTCATCAGTGTGTCCATTGGA AGCAAGGAATTCTGCAGTAGAAACTGTAGAACAAGAGCTTCTCTTTGTTGGATC TGAGACCGGAAAACTTCTGGCCGTGAGAGAACTTGTTAAAAAGGGTTTCAATCC ACCTGTTCTTGTTTTTGTTCAGTCCATTGAAAGGGCTAAAGAACTTTTTCATGA GCTCATATATGAAGGTATTAATGTGGATGTTATTCATGCAGAGAGAACACAACA ACAGAGAGATAACACAGTCCACAGTTTCAGAGCAGGAAAAATCTGGGTTCTGAT TTGTACAGCCTTGCTAGCAAGAGGGATTGATTTTAAAGGTGTGAACTTGGTGAT CAACTATGACTTTCCAACTAGCTCAGTGGAATATATCCACAGGATAGGTCGAAC TGGAAGAGCAGGGAATAAGGGAAAAGCAATTACATTTTTCACTGAGGATGATAA GCCATTATTAAGAAGCGTTGCTAATGTTATACAGCAGGCTGGGTGTCCTGTACC AGAATACATAAAAGGTTTTCAGAAACTACTAAGCAAACAAAAGAAAAAGATGAT TAAGAAACCATTGGAAAGGGAGAGCATTAGTACAACTCCAAAATGTTTCTTAGA	1128	DTRRFSADAARFQIGKRKYDFDS SEVLQGLDFFGNKKSVPGVCGAS QTHQKPQNGEKKEESLTERKREQ SKKKRKTMTSEIASQEEGATIQW MSSVEAKIEDKKVQRESKLTSGK LENLRKEKINFLRNKHKIHVQGT DLPDPIATFQQLDQEYKINSRLL QNILDAGFQMPTPIQMQAIPVML HGRELLASAPTGSGKTLAFSIPI LMQLKQPANKGFRALIISPTREL ASQIHRELIKISEGTGFRIHMIH KAAVAAKKFGPKSSKKFDILVTT PNRLIYLLKQDPPGIDLASVEWL VVDESDKLLKMQTGSETSWLPFS WPAHPTRSEEPMFSATFAYDVEQ WCNSTWTMSSVCPLEARNSAVET VEQELLFVGSETGKLLAVRELVK KGFNPPVLVFVQSIERAKELFHE LIYEGINVDVIHAERTQQQRDNT VHSFRAGKIWVLICTALLARGID FKGVNLVINYDFPTSSVEYIHRI GRTGRAGNKGKAITFFTEDDKPL LRSVANVIQQAGCPVPEYIKGFQ KLLSKQKKKMIKKPLERESISTT PKCFLEKAKDKQKKVTGQNSKKK VALEDKS*

				AAAAGCTAAGGATAAACAGAAAAAGGTCACTGGTCAGAACAGCAAGAAGAAAGT AGCTCTTGAAGACAAAAGTTAA		
Human Melatonin 1a receptor_v4	7	prey3640	391	ACAGACATTTTCCACAGCCAGCGTAGGAACAGCTCCTCCAAATATGGGGGCTTC CTTTGGGAGCCCAACGTTTAGCTCAACTGTTCCAAGCACAGCCTCTCCAATGAA CACAGTCCCGCCGCCACCAATTCCTCCAATTCCAGCGATGCCATCTCTGCCACC AATGCCATCCATTCCCCCAATTCCAGTTCCTCCTCCAGTACCTACATTGCCTCC TGTGCCTCCTGTGCCCCCGATTCCCCCAGTTCCTTCTGTGCCACCCATGACCCC ACTGCCACCCATGTCGGGCATGCCGCCCTTGAATCCGCCACCTGTGGCACCTCT ACCTGCTGGAATGAATGGCTCTGGAGCACCTATGAATTTGAACAATAATCTGAA TCCTATGTTTCTTGGTCCGTTGAATCCTGTTAACCCTATCCAGATGAACTCTCA GAGCAGTGTGAAGCCACTCCCCATCAACCCTGATGATCTGTATGTCAGTGTGCA TGGAATGCCCTTTTCTGCAATGGAAAATGATGTCAGAGATTTTTTTCATGGGCT CCGTGTTGATGCAGTGCATTTGTTGAAAGATCATGTAGGTCGAAATAATGGGAA TGGATTGGTTAAGTTTCTCTCCCCTCAAGATACATTTGAAGCTTTGAAACGAAA CAGAATGCTGATGATTCAACGCTATGTGGAAGTTAGCCCTGCCACAGAAAGACA GTGGGTAGCTGCTGGAGGCCATATCACTTTTAAGCAAAATATGGGACCTTCTGG ACAAACTCATCCCCCTCCTCAGACACTTCCCAGGTCAAAATCGCCCAGTGGGCA GAAAAGATCAAGGTCAAGATCACCACATGAGGCTGGTTTTTGTGTTTACTTGAA AGGGCTACCATTTGAAGCAGAAAACAAACATGTCATTGATTTTTTTAAAAAGCT GGATATTGTGGAAGATAGTATTTATATAGCTTATGGACCCAATGGGAAAGCAAC TGGCGAAGGCTTTGTAGAGTTCAGAAATGAGGCTGACTATAAGGCTGCTCTGTG TCGTCATAAACAGTACATGGGCAATCGCTTTATTCAAGTTCATCCAATTACTAA GAAAGGTATGCTAGAAAAGATAGATATGATTCGAAAAAGACTGCAGAACTTCAG CTATGACCAGAGGGAAATGATACTAAATCCAGAGGGGGATGTCAACTCTGCCAA AGTCTGTGCCCACATAACAAATATTCCATTCAGCATTACAAAGATGGATGTTCT TCAGTTCCTAGAAGGAATCCCAGTGGATGAAAATGCTGTACATGTTCTTGTTGA TAACAATGGGCAAGGTCTAGGACAGGCATTGGTTCAGTTTAAAAATGAAGATGA TGCACGTAAGACTGAACGCTTACACCGTAAAAAACTTAATGGAGAGAAGCTTT TGTTCATGTAGTTACCCTAGAAGATATGAGAGAGATTGAGAAAAATCCCCCTGC CCAAGGAAAAAAGGGATTAAAGATGCCTGTGCCAGGTAATCCTGCAGTTCCAGG AATGCCCAATGCGGGACTGCCCGGTGTGGGACTGCCCAGTGCAGGACTTCCCGG TGCAGGCCTGCCCAGCACAGGACTGCCTGGTTCAGCAATAACCAGTGCAGGACT GCCTGGTGCGGGAATGCCCAGTGCAGGAATACCTAGTGCAGGAGGTGAAGAGCA TGCCTTCCTGACTGTAGGATCAAAGGAAGCCAATAATGGGCCTCCATTTAACTT TCCTGGTAATTTTGGTGGATCAAATGCCTTTGGGCCACCAATCCCTCCTCCAGG ATTAGGAGGCGGGGCCTTTGGTGATGCTAGGCCTGGTATGCCTTCAGTTGGAAA CAGTGGTTTGCCTGGTCTAGGACTGGATGTTCCGGGTTTTGGAGGTGGACCAAA CAATTTAAGTGGGCCATCGGGATTTGGAGGGGGCCCTCAGAATTTTGGAAATGG CCCTGGTAGCTTAGGCGGTCCCCCGGGGTTTGGAAGTGGCCCTCCTGGTCTTGG	1129	QTFSTASVGTAPPNMGASFGSPT FSSTVPSTASPMNTVPPPPIPPI PAMPSLPPMPSIPPIPVPPPVPT LPPVPPVPPIPPVPSVPPMTPLP PMSGMPPLNPPPVAPLPAGMNGS GAPMNLNNNLNPMFLGPLNPVNP IQMNSQSSVKPLPINPDDLYVSV HGMPFSAMENDVRDFFHGLRVDA VHLLKDHVGRNNGNGLVKFLSPQ DTFEALKRNRMLMIQRYVEVSPA TERQWVAAGGHITFKQNMGPSGQ THPPPQTLPRSKSPSGQKRSRSR SPHEAGFCVYLKGLPFEAENKHV IDFFKKLDIVEDSIYIAYGPNGK ATGEGFVEFRNEADYKAALCRHK QYMGNRFIQVHPITKKGMLEKID MIRKRLQNFSYDQREMILNPEGD VNSAKVCAHITNIPFSITKMDVL QFLEGIPVDENAVHVLVDNNGQG LGQALVQFKNEDDARKTERLHRK KLNGREAFVHVVTLEDMREIEKN PPAQGKKGLKMPVPGNPAVPGMP NAGLPGVGLPSAGLPGAGLPSTG LPGSAITSAGLPGAGMPSAGIPS AGGEEHAFLTVGSKEANNGPPFN FPGNFGGSNAFGPPIPPPGLGGG AFGDARPGMPSVGNSGLPGLGLD VPGFGGGPNNLSGPSGFGGGPQN FGNGPGSLGGPPGFGSGPPGLGS APGHLGGPPAFGPGPGPGPGPGP IHIGGPPGFASSSGKPGPTVIKV QNMPFTVSIDEILDFFYGYQVIP GSVCLKYNEKGMPTGEAMVAFES RDEATAAVIDLNDRPIGSRKVKL VLG*

				AAGTGCCCCTGGGCATTTGGGTGGGCCACCAGCTTTTGGGCCTGGCCCCGGCCC CGGCCCCGGCCCTGGCCCAATCCATATTGGTGGTCCCCCTGGCTTTGCATCTAG TTCTGGAAAACCAGGACCGACAGTAATTAAAGTGCAAAACATGCCCTTTACTGT GTCTATTGATGAGATTTAGATTTCTTTTATGGCTATCAAGTAATCCCAGGCTC AGTGTGTTTAAAATACAATGAAAAAGGTATGCCCACAGGTGAAGCCATGGTGGC CTTTGAGTCTCGGGATGAAGCCACAGCTGCTGTCATTGACTTAAATGACAGGCC TATAGGTTCAAGAAAAGTAAAACTTGTATTAGGGTAG		
Human Melatonin 1a receptor _v4	7	prey94769	392	CCTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNACCTGACCTGAAACGCACATTTTAAATGGGTAAATTTTATG ATACGNTAATTTAGTNTGACTAGAGCTGGTNATNAAAGAAATTAAACCTGGATC AGNGCTTTATATAANNAGNAGNTNTTAANANTTATGNANGGNNNNNGTATNTTN CTCTAGANANAGGNNGCCTNNTGAGATNCCCNNGCTGNNNGGCTGGGTGGGGTC NGGCTTNNNNANGNNNCTNGNNGGGGGCCGGGNGAANNNAG	1130	PXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXLT*NAHFKWV NFMIR*FSXTRAGXXRN*TWIXA LYXXXXLXXMXGXXXXL*XXXAX *DXXAXXLGGVXLXXXXXXGPGE X
Human Melatonin 1a receptor _v4	7	prey94786	393	GGGGGGGCAATACTGGGAATAGAAGAGAAAGGAGCTTCCTTTCCCTTTCCTTCT TTCATTCATTCATTCANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTNANCCTTCCGGNGNG CTGGGNTTACCNGGCATGAGACGCCGGGNCGTGGCCCNNGAAAAGGAGGGGGGG GGGNGGGGGGGG	1131	GGAILGIEEKGASFPFPSFIHSF XXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXPSGXLGLPGMR RRXVAXEKEGGGXGG
Human Melatonin 1a receptor _v4	7	prey94788	394	CTGNCTTTACTTTAATCTCTTAATCCTGNCATCTCGTAAGCTGAGGAGGATGTA TGNCGCCTCAAGACCCTGTGATGATTGCGTTAACTGCACAAATTGTAGAGCATG TGTGTTTGAACAATATGAAATCNGGGCTCCTTGAAAAAAGAACAGAATAACAGC AACGTTCAGGGGAACAAGGAAAGATCACCTTAAACTCTNGNCTGCCGGGGGAGC CGGGTGGAACAGAACCATATTTCTTTTTTTTTNAAANCCTAANGGGAGGAGGTA TNAACTGGAATTNTTTTTTTTTNGGGAGGGAAANATTCCTTTAAAAAAAAAAGA GNGTCGCCCTCNTTGGAGAGGGGGGGNTTCCNAAGAGTGGTCCCCCCNGTGGN GNNGGNGGGNNCAGNGATGGGGGNGGGNGNCCAGNNNNGNNCGGGGGNACAANN NANAGGGCCGNNGAGGGTANCGGGGANGGGGCCGGGGN	1132	LXLL*SLNPXIS*AEEDVXRLKT L**LR*LHKL*SMCV*TI*NXGS LKKEQNNSNVQGNKERSP*TLXC RGSRVEQNHISFFXKX*XEEVXT GIXFFXGGKXSFKKKRXSPSLER GGFXRVVPPXGXGGXXDGGGXPX XXGGTXXRAXEGXGXGAG
Human Melatonin 1a receptor _v4	7	prey94790	395	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNCAGAAATAATGAGATTTTTCAAAGCAACAGTGATTCA TCACACTGAAATAGGACTCTACAGTTCAAAATGACAAGAATAACTTTATCCTGT GTTACATACCAATATTAGAGAAATCTTAAAAGTTTGTAGCTGTTAGTTTTTAGG TTTATGCATGTAGTTCAAGTANCCCAAGGTGACAACTTCCCTGNNTTNTNTACA	1133	XXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXRNNEIFQSN SDSSH*NRTLQFKMTRITLSCVT YQY*RNLKSL*LLVFRFMHVVQV XQGDNFPXXXT*ITXX*KLX*XI

				TGAATTACNTGNNNTTGAAAATTGNNCTAAANGATCA		
Human Melatonin 1a receptor _v4	7	prey3809	396	CAGGCTGGCCCAGGCTGGCTACCGGGCTGTGGCCATTGACCTGCCAGGTCTGGG GCACTCCAAGGAAGCAGCAGCCCCTGCCCCTATTGGGGAGCTGGCCCCTGGCAG CTTCCTGGCGGCTGTGGTGGATGCCTTGGAGCTGGGCCCCCCGGTTGTGATCAG TCCATCACTGAGTGGCATGTACTCCCTGCCCTTCCTCACGGCCCCTGGCTCCCA GCTCCCGGGCTTTGTGCCAGTGGCCCCCATCTGCACTGACAAAATCAATGCTGC CAACTATGCCAGTGTGAAGACTCCAGCTCTGATTGTATATGGAGACCAGGACCC CATGGGTCAGACCAGCTTTGAGCACCTGAAGCAGCTGCCCAACCACCGGGTGCT GATCATGAAGGGGGCGGGGCACCCCTGTTACCTGGACAAACCAGAGGAGTGGCA TACAGGGCTGCTGGACTTCCTGCAGGGGCTCCAGTGA	1134	RLAQAGYRAVAIDLPGLGHSKEA AAPAPIGELAPGSFLAAVVDALE LGPPVVISPSLSGMYSLPFLTAP GSQLPGFVPVAPICTDKINAANY ASVKTPALIVYGDQDPMGQTSFE HLKQLPNHRVLIMKGAGHPCYLD KPEEWHTGLLDFLQGLQ*
Human Melatonin 1a receptor _v4	7	prey3798	397	GTACCAGATGCCTCCAGGATCTTTGCCACCGGTTCCTTCTTCAGTGCAGTCACC GGCACAGCAGCAGGTACCTGCCAGACCTGGGGCTCCCTCTGTTCAAGTGCCATC TCCTTTTCTACTTCAAAACCAATATGAGCCTGTTCAGCCCCACTGGTTTTACTG CAAGGAGGTAGAATACAAACAACTGTGGATGCCTTTTAGTGTGTTCGACTCTTT GAATCTTGAAGAAATCTATAATTCAGTTCAGCCAGATCCGGAGAGCGTGGTTCT TGGCACGGATGGAGGGCGCTACGATGTTTACCTCTATGACCGAATAAGGAAGGC TGCCTACTGGGAAGAGGAGCCAGCCGAAGTGAGACGCTGTACTTGGTTTTACAA GGGGGACACAGATAGTCGATTTATTCCCTATACTGAGGAGTTCAGTGAAAAACT AGAGGCTGAATATAAAAAAGCTGTAACCACTAATCAGTGGCACCGAAGATTAGA GTTTCCAAGTGGAGAGACAATTGTTATGCACAATCCAAAGGTTATTGTTCAGTT CCAGCCCTCCTCAGTGCCAGATGAATGGGGCACCACGCAAGATGGACAGACAAG GCCCAGGGTTGTAAAGCGTGGAATTGATGATAACCTTGATGAAATTCCCGACGG GGAGATGCCTCAAGTTGACCATTTGGTGTTTGTGGTGCATGGCATTGGACCTGT GTGTGACTTACGCTTTAGGAGCATTATTGAGTGTGTGGATGATTTTAGGGTGGT TTCTCTCAAATTGCTGCGGACACATTTCAAGAAATCTTTAGATGACGGGAAAGT AAGCAGAGTGGAGTTCCTTCCAGTTCATTGGCATAGTTCTTTGGGTGGGGACGC CACAGGTGTGGACAGGAATATTAAGAAAATCACTTTGCCAAGTATTGGTCGATT TCGTCACTTTACCAATGAAACTTTGCTAGATATTTTATTTTATAACAGCCCCAC CTACTGTCAGACAATTGTGGAAAAAGTAGGAATGGAGATAAACCATCTGCATGC ACTCTTTATGAGTCGGAACCCAGACTTCAAAGGAGGTGTCTCTGTTGCTGGTCA CAGTTTAGGTTCTTTAATATTGTTTGACATCCTGTCTAATCAAAAAGATTTGAA TTTATCAAAGTGCCCTGGACCTCTTGCTGTTGCTAATGGAGTTGTGAAGCAGCT ACATTTTCAGGAAAAGCAGATGCCTGAAGAGCCAAAGCTGACTTTGGATGAGTC GTATGACCTTGTTGTTGAAAATAAAGAAGTCCTAACTTTGCAAGAAACTCTGGA AGCACTTAGCCTCTCTGAATATTTTAGCACTTTTGAAAAGGAAAAGATTGATAT GGAGTCCCTGCTTATGTGTACAGTTGATGACCTGAAGGAAATGGGGATACCCCT TGGACCCAGAAAGAAGATAGCTAACTTTGTAGAACATAAAGCAGCCAAACTGAA AAAAGCAGCGTCAGAAAAGAAGGCAGTGGCGGCCACTTCTACAAAAGGACAAGA GCAAAGTGCCCAGAAGACTAAAGACATGGCTTCCCTCCCCTCAGAATCCAATGA	1135	YQMPPGSLPPVPSSVQSPAQQQV PARPGAPSVQVPSPFLLQNQYEP VQPHWFYCKEVEYKQLWMPFSVF DSLNLEEIYNSVQPDPESVVLGT DGGRYDVYLYDRIRKAAYWEEEP AEVRRCTWFYKGDTDSRFIPYTE EFSEKLEAEYKKAVTTNQWHRRL EFPSGETIVMHNPKVIVQFQPSS VPDEWGTTQDGQTRPRVVKRGID DNLDEIPDGEMPQVDHLVFVVHG IGPVCDLRFRSIIECVDDFRVVS LKLLRTHFKKSLDDGKVSRVEFL PVHWHSSLGGDATGVDRNIKKIT LPSIGRFRHFTNETLLDILFYNS PTYCQTIVEKVGMEINHLHALFM SRNPDFKGGVSVAGHSLGSLILF DILSNQKDLNLSKCPGPLAVANG VVKQLHFQEKQMPEEPKLTLDES YDLVVENKEVLTLQETLEALSLS EYFSTFEKEKIDMESLLMCTVDD LKEMGIPLGPRKKIANFVEHKAA KLKKAASEKKAVAATSTKGQEQS AQKTKDMASLPSESNEPKRKLPV GACVSSVCVNYESFEVGAGQVSV AYNSLDFEPEIFFALGSPIAMFL TIRGVDRIDENYSLPTCKGFFNI YHPLDPVAYRLEPMIVPDLDLKA VLIPHHKGRKRLHLELKESLSRM GSDLKQGFISSLKSAWQTLNEFA

				GCCAAAGAGGAAACTTCCAGTTGGTGCTTGCGTGTCTTCTGTGTGTGTGAATTA TGAATCTTTTGAAGTTGGCGCCGGACAGGTTTCTGTTGCTTACAACTCATTAGA TTTTGAACCAGAGATATTCTTTGCCTTGGGGTCTCCAATTGCTATGTTTCTCAC TATTCGAGGAGTTGATAGGATAGATGAGAATTACAGCCTTCCTACCTGTAAAGG GTTCTTCAATATTTATCATCCGCTTGATCCAGTGGCATATAGATTAGAACCTAT GATTGTTCCAGATTTGGACCTAAAAGCTGTTCTCATTCCACATCACAAAGGCAG AAAAAGACTTCATTTAGAATTGAAAGAGAGTCTCTCTCGTATGGGATCTGATTT GAAGCAGGGTTTTATTAGCTCTCTCAAAAGTGCTTGGCAGACATTAAATGAGTT TGCCCGTGCTCATACGTCTTCAACCCAGTTGCAAGAAGAATTGGAGAAGGTGGC CAATCAGATCAAAGAAGAAGAAGAAAAGCAAGTAGTTGAAGCAGAAAAGGTTGT TGAAAGTCCAGATTTTTCCAAGGATGAGGACTACTTAGGAAAGGTTGGAATGTT AAATGGAGGCCGCCGAATTGACTACGTTCTCCAAGAAAAACCAATAGAGAGTTT TAATGAATACCTTTTCGCTCTTCAGAGTCACTTATGCTATTGGGAATCTGAAGA TACTGCTCTGTTACTACTTAAAGAAATTTATCGAACAATGAACATTAGTCCAGA ACAGCCCCAGCATTGA		RAHTSSTQLQEELEKVANQIKEE EEKQVVEAEKVVESPDFSKDEDY LGKVGMLNGGRRIDYVLQEKPIE SFNEYLFALQSHLCYWESEDTAL LLLKEIYRTMNISPEQPQH*
Human Melatonin 1a receptor _v4	7	prey3033	398	CACAGAACTGTGCCGCATAAATGAGGATCAGAAGGTGGCCCTGGATCTTGACCC CTATGTTAAGAAGCTACTTAATGCCCGGCGACGCGTTGTCTTGGTTAACAACAT TCTACAGAATGCTCAGGAACGACTGAGACGGCTAAACCACAGTGTTGCCAAGGA AACAGCCCGCAGGAGAGCAATGCTGGATTCGGGAATTTACCCCCCTGGCTCCCC AGGCAAATAA	1136	TELCRINEDQKVALDLDPYVKKL LNARRRVVLVNNILQNAQERLRR LNHSVAKETARRRAMLDSGIYPP GSPGK*
Human Melatonin 1a receptor _v4	7	prey1469	399	GGGTGCAATCGGCAGTCCAGGACCTGCAGGCCCCAGAGGACCTGTTGGACCCAG TGGACCTCCTGGCAAAGATGGAACCAGTGGACATCCAGGTCCCATTGGACCACC AGGGCCTCGAGGTAACAGAGGTGAAAGAGGATCTGAGGGCTCCCCAGGCCACCC AGGGCAACCAGGCCCTCCTGGACCTCCTGGTGCCCCTGGTCCTTGCTGTGGTGG TGTTGGAGCCGCTGCCATTGCTGGGATTGGAGGTGAAAAAGCTGGCGGTTTTGC CCCGTATTATGGAGATGAACCAATGGATTTCAAAATCAACACCGATGAGATTAT GACTTCACTCAAGTCTGTTAATGGACAAATAGAAAGCCTCATTAGTCCTGATGG TTCTCGTAAAAACCCCGCTAGAAACTGCAGAGACCTGAAATTCTGCCATCCTGA ACTCAAGAGTGGAGAATACTGGGTTGACCCTAACCAAGGATGCAAATTGGATGC TATCAAGGTATTCTGTAATATGGAAACTGGGGAAACATGCATAAGTGCCAATCC TTTGAATGTTCCACGGAAACACTGGTGGACAGATTCTAGTGCTGAGAAGAAACA CGTTTGGTTTGGAGAGTCCATGGATGGTGGTTTTCAGTTTAGCTACGGCAATCC TGAACTTCCTGAAGATGTCCTTGATGTGCAGCTGGCATTCCTTCGACTTCTCTC CAGCCGAGCTTCCCAGAACATCACATATCACTGCAAAAATAGCATTGCATACAT GGATCAGGCCAGTGGAAATGTAAAGAAGGCCCTGAAGCTGATGGGGTCAAATGA AGGTGAATTCAAGGCTGAAGGAAATAGCAAATTCACCTACACAGTTCTGGAGGA TGGTTGCACGAAACACACTGGGGAATGGAGCAAAACAGTCTTTGAATATCGAAC ACGCAAGGCTGTGAGACTACCTATTGTAGATATTGCACCCTATGACATTGGTGG TCCTGATCAAGAATTTGGTGTGGACGTTGGCCCTGTTTGCTTTTTATAA	1137	GAIGSPGPAGPRGPVGPSGPPGK DGTSGHPGPIGPPGPRGNRGERG SEGSPGHPGQPGPPGPPGAPGPC CGGVGAAAIAGIGGEKAGGFAPY YGDEPMDFKINTDEIMTSLKSVN GQIESLISPDGSRKNPARNCRDL KFCHPELKSGEYWVDPNQGCKLD AIKVFCNMETGETCISANPLNVP RKHWWTDSSAEKKHVWFGESMDG GFQFSYGNPELPEDVLDVQLAFL RLLSSRASQNITYHCKNSIAYMD QASGNVKKALKLMGSNEGEFKAE GNSKFTYTVLEDGCTKHTGEWSK TVFEYRTRKAVRLPIVDIAPYDI GGPDQEFGVDVGPVCFL*

Human Melatonin 1a receptor _v4	7	prey3634	400	ATGGAGGCAGCGGAGACAGAGGCGGAAGCTGCAGCCCTAGAGGTCCTGGCTGAG GTGGCAGGCATCTTGGAACCTGTAGGCCTGCAGGAGGAGGCAGAACTGCCAGCC AAGATCCTGGTTGAGTTTGTGGTGGACTCTCAGAAGAAAGACAAGCTGCTCTGC AGCCAGCTTCAGGTAGCGGATTTCCTGCAGAACATCCTGGCTCAGGAGGACACT GCTAAGGGTCTCGACCCCTTGGCTTCTGAAGACACGAGCCGACAGAAGGCAATT GCAGCTAAGGAACAATGGAAAGAGCTGAAGGCCACCTACAGGGAGCACGTAGAG GCCATCAAAATTGGCCTCACCAAGGCCCTGACTCAGATGGAGGAAGCCCAGAGG AAACGGACACAACTCCGGGAAGCCTTTGAGCAGCTCCAGGCCAAGAAACAAATG GCCATGGAGAAACGCAGAGCAGTCCAGAACCAGTGGCAGCTACAACAGGAGAAG CATCTGCAGCATCTGGCGGAGGTTTCTGCAGAGGTGAGGGAGCGTAAGACAGGG ACTCAGCAGGAGCTTGACAGGGTGTTTCAGAAACTTGGAAACCTGAAGCAGCAG GCAGAACAGGAGCGGGACAAGCTGCAGAGGTATCAGACCTTCCTCCAGCTTCTG TATACCCTGCAGGGTAAGCTGTTGTTCCCTGAGGCTGAGGCTGAGGCAGAGAAT CTTCCAGATGATAAACCCCAGCAGCCGACTCGACCCCAGGAGCAGAGTACAGGA GACACCATGGGGAGAGACCCTGGTGTGTCCTTCAAGGCTGTTGGTCTACAACCT GCTGGAGATGTAAATTTGCCATGA	1138	MEAAETEAEAAALEVLAEVAGIL EPVGLQEEAELPAKILVEFVVDS QKKDKLLCSQLQVADFLQNILAQ EDTAKGLDPLASEDTSRQKAIAA KEQWKELKATYREHVEAIKIGLT KALTQMEEAQRKRTQLREAFEQL QAKKQMAMEKRRAVQNQWQLQQE KHLQHLAEVSAEVRERKTGTQQE LDRVFQKLGNLKQQAEQERDKLQ RYQTFLQLLYTLQGKLLFPEAEA EAENLPDDKPQQPTRPQEQSTGD TMGRDPGVSFKAVGLQPAGDVNL P*
Human Melatonin 1a receptor _v4	7	hgx36	401	ATGTCGAATCTGAGCAAAGGCACGGGCAGCCGGAAGGACACCAAGATGCGGATC CGGGCCTTTCCGATGACCATGGATGAAAAATATGTAAACAGCATTTGGGACCTT CTGAAAAATGCAATTCAAGAAATCCAGCGTAAGAATAACAGTGGTCTTAGTTTT GAGGAGCTCTATAGAAATGCATATACAATGGTTTTGCATAAACATGGAGAAAAG CTCTACACTGGACTAAGAGAAGTTGTTACCGAACATCTCATAAATAAGGTGCGA GAAGATGTACTAAATTCATTGAATAACAACTTTCTTCAAACGCTAAATCAAGCT TGGAATGATCATCAAACAGCTATGGTGATGATTAGAGACATACTAATGTACATG GACCGTGTGTATGTACAACAAAATAATGTGGAGAACGTCTACAATTTGGGATTA ATTATTTTTCGAGATCAAGTTGTACGTTATGGGTGTATTAGGGATCATCTACGG CAAACTCTATTGGATATGATTGCAAGAGAGCGGAAAGGAGAAGTCGTAGACAGA GGCGCAATAAGAAATGCTTGCCAGATGTTAATGATTTTAGGTCTCGAAGGAAGA TCAGTCTATGAAGAAGATTTTGAGGCTCCTTTTTTGGAAATGTCTGCAGAATTT TTTCAGATGGAAAGCCAGAAATTTTTAGCAGAAAATAGTGCTTCAGTATATATA AAGAAAGTAGAAGCTAGAATTAATGAAGAAATAGAACGAGTGATGCACTGCCTT GACAAATCAACGGAAGAACCAATTGTAAAGGTGGTTGAAAGGGAACTCATTTCC AAGCACATGAAGACTATAGTAGAAATGGAGAATTCTGGGCTAGTACATATGTTG AAAAATGGAAAGACAGAAGACCTTGGTTGCATGTACAAGTTATTTAGTCGTGTG CCAAATGGTTTGAAAACAATGTGTGAGTGTATGAGTTCCTATTTGAGGGAGCAA GGTAAAGCTCTTGTTTCTGAAGAAGGAGAAGGAAAGAATCCTGTTGACTATATC CAGGGCTTATTGGATCTGAAGAGTAGGTTCGATCGCTTCCTCCTGGAATCATTC AACAATGACCGTCTCTTTAAACAAACTATTGCGGGTGACTTTGAGTATTTTCTC AACCTCAACTCCAGGTCTCCTGAATACCTCTCATTATTTATTGATGATAAGCTG AAAAAGGGAGTCAAAGGGCTAACAGAACAAGAAGTAGAAACAATATTGGATAAA	1139	MSNLSKGTGSRKDTKMRIRAFPM TMDEKYVNSIWDLLKNAIQEIQR KNNSGLSFEELYRNAYTMVLHKH GEKLYTGLREVVTEHLINKVRED VLNSLNNNFLQTLNQAWNDHQTA MVMIRDILMYMDRVYVQQNNVEN VYNLGLIIFRDQVVRYGCIRDHL RQTLLDMIARERKGEVVDRGAIR NACQMLMILGLEGRSVYEEDFEA PFLEMSAEFFQMESQKFLAENSA SVYIKKVEARINEEIERVMHCLD KSTEEPIVKVVERELISKHMKTI VEMENSGLVHMLKNGKTEDLGCM YKLFSRVPNGLKTMCECMSSYLR EQGKALVSEEGEGKNPVDYIQGL LDLKSRFDRFLLESFNNDRLFKQ TIAGDFEYFLNLNSRSPEYLSLF IDDKLKKGVKGLTEQEVETILDK AMVLFRFMQEKDVFERYYKQHLA RRLLTNKSVSDDSEKNMISKLKT ECGCQFTSKLEGMFRDMSISNTT MDEFRQHLQATGVSLGGVDLTVR VLTTGYWPTQSATPKCNIPPAPR

				GCAATGGTCCTTTTTAGGTTTATGCAAGAAAAAGATGTATTTGAACGTTATTAT AAACAACACTTGGCAAGGAGACTTCTCACAAATAAAAGTGTTTCTGATGACTCT GAAAAAAACATGATATCTAAGTTAAAGACTGAATGTGGATGTCAGTTCACGTCA AAACTGGAAGGAATGTTTAGGGATATGAGCATCTCAAACACAACGATGGATGAA TTCAGGCAACATCTACAGGCAACTGGTGTATCTTTAGGTGGTGTTGATCTTACA GTCCGGGTGCTCACGACAGGATATTGGCCCACTCAGTCAGCCACACCAAAGTGC AACATCCCACCAGCACCAAGACATGCTTTTGAGATATTCAGAAGGTTCTACTTA GCCAAACACAGTGGTCGACAGCTCACACTCCAGCATCATATGGGTTCTGCAGAT CTCAATGCCACATTTTATGGACCAGTTAAAAAGGAAGATGGATCTGAAGTTGGT GTTGGAGGTGCACAAGTAACTGGCTCTAATACACGGAAGCACATATTGCAAGTT TCCACTTTCCAGATGACCATATTAATGCTCTTTAATAATAGAGAAAAATACACA TTTGAGGAAATTCAGCAAGAGACAGATATCCCTGAAAGAGAGCTTGTTAGAGCC CTACAGTCCCTCGCCTGTGGTAAACCAACACAGCGGGTTCTTACAAAAGAACCC AAATCAAAGGAAATAGAAAATGGTCATATATTTACAGTTAATGATCAATTCACA TCCAAACTACACAGAGTCAAGATTCAAACAGTTGCTGCCAAACAAGGTGAATCC GACCCAGAGAGGAAAGAAACAAGGCAGAAAGTAGACGACGACAGAAAACATGAG ATAGAAGCTGCTATAGTGCGGATAATGAAATCTAGAAAGAAGATGCAGCACAAT GTTCTAGTAGCGGAGGTAACTCAGCAGTTGAAGGCGCGATTCTTACCAAGTCCA GTTGTTATTAAGAAACGTATTGAAGGACTTATTGAGAGAGAATATTTGGCACGA ACACCTGAGGATCGCAAAGTATACACATATGTAGCATAA		HAFEIFRRFYLAKHSGRQLTLQH HMGSADLNATFYGPVKKEDGSEV GVGGAQVTGSNTRKHILQVSTFQ MTILMLFNNREKYTFEEIQQETD IPERELVRALQSLACGKPTQRVL TKEPKSKEIENGHIFTVNDQFTS KLHRVKIQTVAAKQGESDPERKE TRQKVDDDRKHEIEAAIVRIMKS RKKMQHNVLVAEVTQQLKARFLP SPVVIKKRIEGLIEREYLARTPE DRKVYTYVA*
Human Melatoni n 1a receptor _v4	7	prey700	402	ATGGGAATTGGTCTTTCTGCTCAAGGTGTGAACATGAATAGACTACCAGGTTGG GATAAGCATTCATATGGTTACCATGGGATGATGGACATTCGTTTTGTTCTTCT GGAACTGGACAACCTTATGGACCAACTTTCACTACTGGTGATGTCATTGGCTGT TGTGTTAATCTTATCAACAATACCTGCTTTTACACCAAGAATGGACATAGTTTA GGTATTGCTTTCACTGACCTACCGCCAAATTTGTATCCTACTGTGGGGCTTCAA ACACCAGGAGAAGTGGTCGATGCCAATTTTGGGCAACATCCTTTCGTGTTTGAT ATAGAAGACTATATGCGGGAGTGGAGAACCAAAATCCAGGCACAGATAGATCGA TTTCCTATCGGAGATCGAGAAGGAGAATGGCAGACCATGATACAAAAAATGGTT TCATCTTATTTAGTCCACCATGGGTACTGTGCCACAGCAGAGGCCTTTGCCAGA TCTACAGACCAGACCGTTCTAGAAGAATTAGCTTCCATTAAGAATAGACAAAGA ATTCAGAAATTGGTATTAGCAGGAAGAATGGGAGAAGCCATTGAAACAACACAA CAGTTATACCCAAGTTTACTTGAAAGAAATCCTAATCTCCTTTTCACATTAAAA GTGCGTCAGTTTATAGAAATGGTGAATGGTACAGATAGTGAAGTACGATGTTTG GGAGGCCGAAGTCCAAAGTCTCAAGACAGTTATCCTGTTAGTCCTCGACCTTTT AGTAGTCCAAGTATGAGCCCCAGCCATGGAATGAATATCCACAATTTAGCATCA GGCAAAGGAAGCACCGCACATTTTTCAGGTTTTGAAAGTTGTAGTAATGGTGTA ATATCAAATAAAGCACATCAATCATATTGCCATAGTAATAAACACCAGTCATCC AACTTGAATGTACCAGAACTAAACAGTATAAATATGTCAAGATCACAGCAAGTT AATAACTTCACCAGTAATGATGTAGACATGGAAACAGATCACTACTCCAATGGA	1140	MGIGLSAQGVNMNRLPGWDKHSY GYHGDDGHSFCSSGTGQPYGPTF TTGDVIGCCVNLINNTCFYTKNG HSLGIAFTDLPPNLYPTVGLQTP GEVVDANFGQHPFVFDIEDYMRE WRTKIQAQIDRFPIGDREGEWQT MIQKMVSSYLVHHGYCATAEAFA RSTDQTVLEELASIKNRQRIQKL VLAGRMGEAIETTQQLYPSLLER NPNLLFTLKVRQFIEMVNGTDSE VRCLGGRSPKSQDSYPVSPRPFS SPSMSPSHGMNIHNLASGKGSTA HFSGFESCSNGVISNKAHQSYCH SNKHQSSNLNVPELNSINMSRSQ QVNNFTSNDVDMETDHYSNGVGE TSSNGFLNGSSKHDHEMEDCDTE MEVDSSQLRRQLCGGSQAAIERM IHFGRELQAMSEQLRRDCGKNTA NKKMLKDAFSLLAYSDPWNSPVG

				GTTGGAGAAACTTCATCCAATGGTTTCCTAAATGGTAGCTCTAAACATGACCAC GAAATGGAAGATTGTGACACCGAAATGGAAGTTGATTCAAGTCAGTTGAGACGC CAGTTGTGTGGAGGAAGTCAGGCCGCCATAGAAAGAATGATCCACTTTGGACGA GAGCTGCAAGCAATGAGTGAACAGCTAAGGAGAGACTGTGGCAAGAACACTGCA AACAAAAAAATGTTGAAGGATGCATTCAGTCTACTAGCATATTCAGATCCCTGG AACAGCCCAGTTGGAAATCAGCTTGACCCGATTCAGAGAGAACCTGTGTGCTCA GCTCTTAACAGTGCAATATTAGAAACCCACAATCTGCCAAAGCAACCTCCACTT GCCCTAGCAATGGGACAGGCCACACAATGTCTAGGACTGATGGCTCGATCAGGA ATTGGATCCTGCGCATTTGCCACAGTGGAAGACTACCTACATTAG		NQLDPIQREPVCSALNSAILETH NLPKQPPLALAMGQATQCLGLMA RSGIGSCAFATVEDYLH*
Human Melatoni n 1a receptor _v4	7	prey94815	403	CACTGTGAGGCTCTTGGTTTGTGGTCATTTGTTATGGCAGCCCTAGGAATCTAA CATAATGGAATAAAGAAGCTTGTATTTGAGATCTTTTTCAAATATTTTCATTTT TAAAAATCTTAACTCTATAGAATTTTACTAAATGGGTCTTTTTGTCCTTAACCT CTAATTAAGTATAATTTTTTAGCCTATCTCTTTATGTGAATCTATCCATCCTCT CTCACCGTGGNCANNAANTGGAACACCTAAGGNGGACTCCNNNTGAGCANGTAT TTCAANACNGNGCNCCNCCTNNTCNTNCCGCCCNGNTCACACCCNCNCCCACCT TNGNGGGNGGNGTGGAAACCGGGCNGGNTGTTNCNTGCGAANCCNNAAGNTANA NTAAGCACGCNCNNCTCNNTNCGNTGGCCCCCCGCCCACNGNCCCCNTANGGNG CNNACNTTGNTGNGNTCCTCAG	1141	HCEALGLWSFVMAALGI*HNGIK KLVFEIFFKYFHF*KS*LYRILL NGSFCP*PLIKYNFLAYLFM*IY PSSLTVXXXWNT*GGLXXSXYFX TXXXLXXPPXSHPXPPXXXXWKP GXXXXAXPXXXXSTXXSXRWPPA HXPXXXXTLXXSS
Human Melatoni n 1a receptor _v4	7	prey3842	404	GGTCCCCCAGCAGAGTCCAGGGCAATGGCATTTTCCACTGGCTACCCTGGGGAC TTTACTATCCCTCGGCCGTCTGGGGGCGGAGTCCACTGCCAGGAACCCCGGAGG CAGTTGGCAGGGGGTCCATGTGTCGGGGGCCTACCACCATATGCCACCTTCCCC AGACAGTGCCCTCCTGGGCGACCCTACCCCCACCAGGACAGCATCCCTTCTCTG GAGCCAGGCAGCCACTCTAAGGATGGACTTCACAGGGGTGCCTTGTTACCACCC CCCTACCGAGTGGCTGATTCCTATAGCAATGGCTACAGAGAGCCCCCTGAGCCA GATGGATGGGCTGGAGGTCTCCGGGGCCTTCCCCCAACTCAGACCAAATGCAAA CAACCGAACTGCAGCTTCTATGGACACCCTGAGACAAACAACTTCTGTTCCTGT TGTTACAGGGAAGAACTGAGGAGGAGGGAGCGGGAACCGGATGGGGAGCTCCTG GTGCACAGGTTCTGA	1142	GPPAESRAMAFSTGYPGDFTIPR PSGGGVHCQEPRRQLAGGPCVGG LPPYATFPRQCPPGRPYPHQDSI PSLEPGSHSKDGLHRGALLPPPY RVADSYSNGYREPPEPDGWAGGL RGLPPTQTKCKQPNCSFYGHPET NNFCSCCYREELRRREREPDGEL LVHRF*
Human Melatoni n 1a receptor _v4	7	prey94820	405	GCCGGCCATATTTTAGGATCAAATATATTATTACTGATTTGGTGACTGTTCTAC ATCTGAGATTTCTGATGTCACTCTATTCTTCATTAGGAAGCATTAGATTAATTA TATAAAGAGCTAATTAAAGCATCTTAACATCTGTATTTCAAAATGCACAGATAT ACTTTAGAATTCTGGTAATTGTAATCAGAAGTCTGTTTTAACAAAAAGTAAAAC AGAAAGTTCACTGGTCTCTGTTAGAATACAGCTTAATTACTCAATGTAAATAAT ATTTATACATATGAATCAGACAGTAATAAAACTAACATCTTCAGCATCTCCTAA ATTCTAGCACAAAAGCCCAACTTAGTAGAAAAGTTAGTGCAAAAAGGCTTAATA TATTTTCTCATA	1143	AGHILGSNILLLIW*LFYI*DF* CHSILH*EALD*LYKELIKAS*H LYFKMHRYTLEFW*L*SEVCFNK K*NRKFTGLC*NTA*LLNVNNIY TYESDSNKTNIFSIS*ILAQKPN LVEKLVQKGLIYFLI
Human Melatoni n 1a	7	prey94829	406	CAGTTATTGCAACACTATTTATTGAAAATTTCCCCTTCCCCTCCTTCTTCTAAC ATTAAATTACCTTATATATTACATTAGATTCATTTTTGAGTCAGTGTATCCTGT AGTGGTTTGACAGGTCTGTTNTTATGTTNACAGTCTTNTAACTAGNGTTGNAAA	1144	QLLQHYLLKISPSPPSSNIKLPY ILH*IHF*VSVSCSGLTGLXLCX QSXN*XXK*EXRKXIYKMRXXLX

receptor _v4				TAAGAATTNAGAAAATTNATTTATAAAATGAGANAATNNTTGNGTNTGTGGNTT TGGTGNTGNCNTTGNTTTTGTTGACGGTGCNAAGANGGNTTGGGGGGATNGTTA TGGGGCGTGGGGGGGGGGCTGACGCATTGGNCGNAATNNNGNGGCGGCTGGGNN GNGNATNGNATGNNNGNGNCNNCGNTGGNNGNGNNTGNNGGNGNTCNGGNNGNA TGNGGGAGNNGNACNNNNCNGGNGNCGNGTANGGAAGNGNGGNGGNGNGGGGAG NGN		XWXWXXXXFC*RCXXGLGGXLWG VGGGLTHWXXXXGGWXXXXMXXX XXXXXXGXXXXXGXXTXXXXXXE XXXXGEX
Human Melatoni n 1a receptor _v4	7	prey84331	407	GACGAAAAAGGCATCTTGTCTGTTAACCACAGCTTGCTTTAATAGAATCCTGGG AGGGTGATTGGGACTTTTTAGTATTACAACCTTAGTGTCATTGAGGAGGATTTT GGTCTAGTTAGTGGGCTGAGTTTCATATACCTCTCCCTCCATGTGCAGGTTTGT TAAGATAATTGGTAGTTTTTAATAATATAAAATACTTAAGTTGAAATACAAAAG TGTGGCAACAATTATTAAATATTGGCTAGAATTCTAGGAGAGTTACACAACTAG TGGAAGTCCATGTTTAGAAAATAAATGGCTTGTTTAAGGAAAAGTTTTTGTGTC CAAAGCTCCTTAAAGTCAGAGAGATTTCTACCTGGTACTTAACATCATATGGAA ATTGATGCTTTAGTGAGGGTGTTGGCTATCCTATTGTCAATTTCCTGCATCCTT TTTTCTTCTTTATTTTTGTATAGAGACAAGGTCTCGCTATGTTGCCCAGGCTGG TCTTGTTCCTGGGCTCAAGCAGTCCTCCCGCCTCGGTCTCCCAAAGTGCCGGGA TTACAGGTGTGAGCCACTGTGCCCAGCTTATCCTTTTTTCATTACACAAAAAGA CTGAATTTGGTTAGTTCTAAGTTGGAAGATAAAGATGGTATGCACAGGAGGCCC TTGGGAGCCCTCAGATAACTTTCTCATTCTTCCAAAATCAGGCTGGGATGCATT CTGTAAATTTTCCCTGCCTAGGATGTATACCTGAGGAATAAGGTAAGGAAGATG TCAGCAAGTCAGCCTCTGGTTTACCTGCTAGCTGGCATGGATCCTTAAGGAAGC AGGAGGGAGTTGGGAAGAGAGGAAGGGGTGAAGTTGGTATCTTTTAAAGCGAGA GTGATTTTACCTCAGATTTTGAAGAATACTAAGGAATCCAGTTGTTGGGGTACA TGCTATTATTAGAAGGATCTAGATAATTTGTCCTCTGAGTCATACTTGACATTG TACCTGTGGCACATCAATCCGCACTGTTTGATACTCTGGCTGAATCTCAGCTTT CACCAACATTGTCAAAGGACCTTTTTTAGTGCCCAGCCATGCCTAAGAGTGTGT CATCTGAAGAGGGAAGCATCTGCATACTGCTGTCCTGATTGCTCAGTCCTCACT ACCTACCAGACCCGTTGGTAAGGTACAAAAGTACATGCTTGGAAAAGCAGTCTG CACCACCAGTGATAAGCTGTGACAGAGTGGAACAGCCTCAATGAAATGAAGGAA GGATTGCTACAGTGGCATTAAGGATGGTCTCTTAATCCTGTGTTAACCACTAGA TTAACTTTACAATCAACTCAAAATCCTTCAAAGGCTTTCCACTTTCTTTAGTGG CATTCAGACCCCCTCTAGTTTGACCCCTACCTCCAACTTGAACCTCTGTTACTC TTCCGTATGAACATTTTCCTCTAGCCCTGGACTACTAGTACCGAAGTCACTAGT CACATAGGACTCATTTGAAATATGACTAGTCTCAATTGAGATGTAATGTAAGTG TAAAATACACAGCAGATTTCTAAGACAGCACACAAAATGTAAAATATGTCAAAA ATATTTGATACTGATTACATGTTGAAATATATGTGTTGGGTTAAATAAAATGCA TTAAAGTT	1145	DEKGILSVNHSLL**NPGRVIGT F*YYNLSVIEEDFGLVSGLSFIY LSLHVQVC*DNW*FLII*NT*VE IQKCGNNY*ILARILGELHN*WK SMFRK*MACLRKSFCVQSSLKSE RFLPGT*HHMEIDALVRVLAILL SISCILFSSLFLYRDKVSLCCPG WSCSWAQAVLPPRSPKVPGLQV* ATVPSLSFFHYTKRLNLVSSKLE DKDGMHRRPLGALR*LSHSSKIR LGCIL*IFPA*DVYLRNKVRKMS ASQPLVYLLAGMDP*GSRRELGR EEGVKLVSFKARVILPQILKNTK ESSCWGTCYY*KDLDNLSSESYL TLYLWHINPHCLILWLNLSFHQH CQRTFFSAQPCLRVCHLKREASA YCCPDCSVLTTYQTRW*GTKVHA WKSSLHHQ**AVTEWNSLNEMKE GLLQWH*GWSLNPVLTTRLTLQS TQNPSKAFHFL*WHSDPL*FDPY LQLEPLLLFRMNIFL*PWTTSTE VTSHIGLI*NMTSLN*DVM*V*N TQQISKTAHKM*NMSKIFDTDYM LKYMCWVK*NALK
Human Melatoni	7	prey94831	408	TCAAAACTACTCAAAACCTGCTCCATCACCCCAGCATNCTTTGATTTAGGATTA ATAGTCCTGTTTTAGAAATGAAGGTTTTGAAAGGTCTTACTGTCCTCCTTTCTN	1146	SKLLKTCSITPAXFDLGLIVLF* K*RF*KVLLSSFLLADI*T*XQX

n 1a receptor _v4				TTGGCCGACATTTGAACCTGANTNCAGATNTTTTCTTTTTCTTTTTTCTTTTT NCNTGCTTCTTGTNTTNTTTTGATTTNANAANNGGGNGNTGGGGGAGGGAAGCN CACGNCCGNTAGAANGCCAGNGGGNGNGAAAAGGGGGGGNGAGNNNCCNNGCNG ACCNNNAGTNNATNCGGNNGGAGACGCGGNNCGGTNTNGNGCGGGGGNCNGNNN GNAGNGGTNGNCCGGCGNTGGGNGCTNGCNCANCCAGNGNTNNTATNCNCNNNT TCNGNCTNNNTNNNAGCAGGCGAGNTTTNNNGCCNGTNGGGCNGGACGNANACN TCTTCNCNNGGNCNTNCGNTTNCGCCGGGGNNGGNNNGGANGNTACGGGN		FFFFFFLFXCFLXXFDXXXGXWG REAHXR*XAXGXEKGGXXXXXTX SXXGXRRGXVXXGGXXXXVXRRW XLAXPXXXXXXSXXXXAGEXXXX XGXTXTSSXGXXXXPGXXXXXR
Human Melatonin 1a receptor _v4	7	prey3596	409	CCACTCAGCACATTCAACGCATTCTACACATTCTGCTCATTCAACGCATGCCGG ACATGCAGGTCACACGTCACTTCCACAGTGCATTAATCCGTTCACCAACTTACC CCATACTCCTCGATACTATGATATTCTAAAGAAACGTCTTCAGCTCCCTGTTTG GGAATACAAGGATAGGTTTACAGATATTCTGGGTAGACATCAGTCCTTTGTACT GGTTGGTGAGACTGGGTCTGGTAAAACAACACAAATTCCACACCGGTGTGTGGA GTACATGCGATCATTACCAGGACCCAAGAGAGGAGTTGCCTGTACCCAACCCAG GAGAGTGGCTGCAATGAGTGTGGCTCAGAGAGTTGCTGATGAGATGGATGTGAT GTTGGGCCAGGAAGTTGGTTACTCCATTCGATTTGAAGACTGCAGTAGTGCAAA AACATTTTTTATGTATATGACTGATGGGATGTTACTTCGTGAAGCTATGAATGA TCCCCTCCTGGAGCGTTATGGTGTAATAATTCTTGATGAGGCTCATGAGAGGAC ACTGGCTACAGATATTCTAATGGGTGTTCTGAAGGAAGTTGTAAGACAGAGATC AGATTTAAAGGTTATAGTTATGAGCGCTACTCTAGATGCAGGAAAATTCCAGAT TTACTTTGATAACTGTCCTCTCCTAACTATTCCTGGGCGTACACATCCTGTTGA GATCTTCTATACTCCAGAACCAGAGAGAGATTATCTTGAAGCAGCAATTCGAAC AGTTATCCAGATTCATATGTGTGAAGAGGAAGAGGGAGATCTTCTTCTTTTCTT AACTGGTCAAGAGGAAATTGATGAAGCCTGTAAGAGAATAAAGCGTGAAGTTGA TGATTTGGGCCCTGAAGTTGGTGACATTAAAATCATTCCATTGTATTCTACACT TCCACCTCAGCAGCAGCAACGCATTTTTGAGCCTCCACCTCCCAAAAAACAGAA TGGAGCAATTGGAAGAAAGGTAGTTGTGTCAACTAACATAGCAGAGACGTCTTT GACAATAGATGGTGTGGTGTTTGTGATTGATCCTGGATTTGCGAAACAGAAGGT CTACAATCCTCGAATCAGAGTTGAGTCCCTTTTGGTGACAGCTATTAGTAAAGC TTCAGCTCAGCAAAGGGCTGGTCGAGCTGGACGTACCAGACCTGGAAAATGCTT CAGACTTTACACAGAGAAAGCTTATAAAACAGAAATGCAGGATAACACCTATCC TGAGATTTTGCGTTCTAATTTAGGATCAGTTGTGTTACAATTGAAGAAACTTGG TATTGATGACTTGGTACATTTTGATTTTATGGATCCACCAGCTCCTGAAACTCT GATGAGAGCCCTGGAACTTTTGAATTACCTGGCTGCTTTAAATGATGATGGAGA TCTGACTGAATTGGGATCCATGATGGCAGAGTTTCCTCTAGATCCACAGCTCGC AAAAATGGTTATTGCAAGTTGTGACTACAACTGTTCTAATGAGGTCCTATCTAT TACTGCTATGTTGTCAGTCCCACAGTGTTTTGTTCGCCCCACGGAGGCCAAGAA AGCCGCAGATGAGGCCAAGATGAGATTTGCCCACATAGATGGAGATCATCTGAC ACTGCTGAACGTCTACCATGCTTTTAAACAAAATCATGAATCGGTTCAGTGGTG TTATGACAACTTCATTAACTACAGGTCCCTGATGTCCGCGGACAATGTACGCCA	1147	HSAHSTHSTHSAHSTHAGHAGHT SLPQCINPFTNLPHTPRYYDILK KRLQLPVWEYKDRFTDILGRHQS FVLVGETGSGKTTQIPHRCVEYM RSLPGPKRGVACTQPRRVAAMSV AQRVADEMDVMLGQEVGYSIRFE DCSSAKTFFMYMTDGMLLREAMN DPLLERYGVIILDEAHERTLATD ILMGVLKEVVRQRSDLKVIVMSA TLDAGKFQIYFDNCPLLTIPGRT HPVEIFYTPEPERDYLEAAIRTV IQIHMCEEEEGDLLLFLTGQEEI DEACKRIKREVDDLGPEVGDIKI IPLYSTLPPQQQRIFEPPPPKK QNGAIGRKVVVSTNIAETSLTID GVVFVIDPGFAKQKVYNPRIRVE SLLVTAISKASAQQRAGRAGRTR PGKCFRLYTEKAYKTEMQDNTYP EILRSNLGSVVLQLKKLGIDDLV HFDFMDPPAPETLMRALELLNYL AALNDDGDLTELGSMMAEFPLDP QLAKMVIASCDYNCSNEVLSITA MLSVPQCFVRPTEAKKAADEAKM RFAHIDGDHLTLLNVYHAFKQNH ESVQWCYDNFINYRSLMSADNVR QQLSRIMDRFNLPRRSTDFTSRD YYINIRKALVTGYFMQVAHLERT GHYLTVKDNQVVQLHPSTVLDHK PEWVLYNEFVLTTKNYIRTCTDI KPEWLVKIAPQYYDMSNFPQCEA KRQLDRIIAQTSIQGIFTVLNSV LRTEVIERTALKDE*

				GCAGCTATCTCGAATTATGGACAGATTTAATTTGCCTCGTCGAAGTACTGACTT TACAAGCAGGGACTATTATATTAATATAAGAAAAGCTTTGGTTACTGGGTATTT TATGCAGGTGGCACATTTAGAACGAACAGGGCATTACTTAACTGTGAAAGATAA CCAGGTGGTTCAGTTGCATCCCTCTACTGTTCTTGACCACAAACCTGAATGGGT GCTTTATAATGAGTTTGTTCTAACAACAAAGAATTACATCCGGACATGTACAGA CATCAAGCCAGAATGGTTGGTGAAAATTGCCCCTCAATATTATGACATGAGCAA TTTCCCACAGTGTGAAGCAAAGAGACAGTTGGACCGCATCATTGCCCAAACTTC AATCCAAGGAATATTCACAGTACTGAATTCAGTGCTTAGAACTGAAGTTATTGA GAGGACAGCTTTAAAAGATGAATGA		
Human Melatoni n 1a receptor _v4	7	prey94836	410	AACAAACATGCTGAACCACCTATGGGAATCAAAACACACCCCCACTCTGATGGT GAAGCTGGGCTCCCAGTAGTGCAGGAGGTGTGGGGGCTCCCTCGAACACTGACT TTCTCCTCCCTCCCCTGCCACCTCTGTCCTCACCTTGTGGCCAGAATACAACCC TGGAGTTGGCAAGGCTCCTCCCTGCGCCCTGATGCCGCAGACTCTGCAACCTTC ATGCTGCCCGCTGCCTCCTCCCTCAGCTCTCTGGAGGGCGGCCAGGAGCCCGTG GATATAAAGATCATGAGTTTCCCAAAGAGCCCCTTTCCAGCCCGAAGCCACTTT GATGTCAGCGGGACTGTCGGTGGCCTCCGTGTGACCAGCCCTAGTGGTCAACTC ATACCTGTGAAGAATCTGTCGGAGAATATCGAGATCCTGCTGCCCCGGCATTCA CAAAGACACAGCCAGCCGACCGTGTTGAACCTGACCAGTCCTGAAGCTTTGTGG GTGAACGTGACTTCAGGGGAGGCAACCTTGGGGATCCAGCTGCACTGGAGACCG GACATTGCACTCACGCTTAGCCTGGGCTATGGCTACCACCCCAACAAGAGCAGC TACGATGCCCAAACTCACCTCGTACCAATGGTGGCTCCAGATGAGCTGCCCACG TGGATCCTGAGCCCACAGGACCTGCGTTTTGGAGAAGGGGTCTACTATTTGACT GTGGTCCCTGAGTCTGACCTGGAGCCAGCCCCCGGCAGGGACCTCACGGTTGGC ATCACCACCTTCCTGTCTCACTGTGTGTTCTGGGATGAGGTCCAGGAGACTTGG GACGACTCAGGATGCCAGGTGGGGCCTCGGACCAGCCCCTACCAGACACACTGC CTCTGCAACCACCTCACTTTCTTCGGAAGCACGTTCCTGGTGATGCCCAATGCC ATCGACGTCCACCAGACTGCTGAGCTCTTTGCCACCTTTGAGGACAACCCTGTG GTCGTGACCACCGTGGGCTGCCTGTGTGTGGTCTACGTGCTGGTGGTGATCTGG GCGAGGAGGAAGGACGCTCAGGATCAGGCCAAGGTGAAGGTCACAGTGCTGGAA GACAATGATCCCTTTGCTCAGTACCACTACCTGGTGACAGTCTACACAGGACAC CGACGAGGGGCAGCCACGTCCTCAAAGGTGACTGTCACCCTGTATGGCCTGGAT GGAGAGAGAGAGCCCCACCACCTGGCTGATCCTGACACTCCGGTTTTTGAGCGA GGAGCAGTGGATGCCTTCCTCCTCTCCACCCTGTTCCCCCTGGGAGAACTGCGG AGCCTCCGGCTGTGGCATGACAACTCAGGGGACCGGCCATCGTGGTATGTGAGC CGGGTGCTGGTCTATGACCTGGTGATGGACCGGAAGTGGTATTTCCTGTGCAAC TCCTGGCTATCCATCAATGTTGGAGATTGCGTCCTCGACAAGGTGTTTCCTGTG GCCACGGAGCAGGACAGAAAACAATTCAGCCACCTGTTTTTCATGAAGACTTCC GCGGGCTTCCAGGATGGACACATCTGGTATTCGATCTTCAGCCGCTGCGCTCGC AGCAGCTTCACCCGCGTCCAGAGGGTGTCCTGCTGCTTCTCCCTGCTGCTGTGC	1148	NKHAEPPMGIKTHPHSDGEAGLP VVQEVWGLPRTLTFSSLPCHLCP HLVARIQPWSWQGSSLRPDAADS ATFMLPAASSLSSLEGGQEPVDI KIMSFPKSPFPARSHFDVSGTVG GLRVTSPSGQLIPVKNLSENIEI LLPRHSQRHSQPTVLNLTSPEAL WVNVTSGEATLGIQLHWRPDIAL TLSLGYGYHPNKSSYDAQTHLVP MVAPDELPTWILSPQDLRFGEGV YYLTVVPESDLEPAPGRDLTVGI TTFLSHCVFWDEVQETWDDSGCQ VGPRTSPYQTHCLCNHLTFFGST FLVMPNAIDVHQTAELFATFEDN PVVVTTVGCLCVVYVLVVIWARR KDAQDQAKVKVTVLEDNDPFAQY HYLVTVYTGHRRGAATSSKVTVT LYGLDGEREPHHLADPDTPVFER GAVDAFLLSTLFPLGELRSLRLW HDNSGDRPSWYVSRVLVYDLVMD RKWYFLCNSWLSINVGDCVLDKV FPVATEQDRKQFSHLFFMKTSAG FQDGHIWYSIFSRCARSSFTRVQ RVSCCFSLLLCTMLTSIMFWGVP KDPAEQKMDLGKIEFTWQEVMIG LESSILMFPINLLIVQIFQNTRP RVAKEQNTGKWDRGSPNLTPSPQ PMEDGLLTPEAVTKDVSRIVSSL FKALKVPSPALGWDSVNLMDINS LLALVEDVIYPQNTSGQVFWEEA

				ACCATGCTGACCAGCATCATGTTCTGGGGGGTCCCCAAGGACCCAGCTGAGCAA AAGATGGACTTGGGTAAAATTGAATTCACCTGGCAGGAGGTGATGATTGGCCTG GAGAGCTCCATCCTCATGTTCCCCATCAACCTCCTGATTGTTCAGATCTTTCAG AACACCCGTCCCCGGGTCGCGAAGGAGCAGAACACTGGAAAATGGGACCGGGGG TCCCCCAACCTGACTCCCTCCCCACAGCCCATGGAGGACGGCCTTCTGACACCT GAGGCAGTGACCAAGGATGTGTCAAGAATCGTCAGCTCCCTCTTCAAAGCTCTC AAGGTGCCATCCCCCGCCTTGGGCTGGGACTCAGTGAACTTGATGGACATCAAC AGTCTCCTCGCCTTGGTGGAAGATGTCATTTATCCACAGAACACATCAGGGCAG GTGTTCTGGGAGGAAGCCAAAAAGAGAGAGGACCCTGTAACACTCACTTTGGGG TCATCAGAAATGAAAGAGAAATCACAGTGTCCCAAGCCCAAGGCGGCACGGAGT GGCCCCTGGAAGGACAGCGCCTACAGGCAGTGTCTGTACCTTCAGCTGGAACAC GTGGAGCAAGAGCTGCGGCTGGTGGGGCCCCGAGGCTTCCCCCAGCACCACAGC CATGCCCAGGCCCTCAGGCAGCTGCAGACCCTGAAGGGCGGCCTGGGGGTACAG CCGGGCACCTGGGCCCCTGCACATGCCAGCGCTCTTCAGGTGAGCAAACCCCCT CAAGGCCTGCCCTGGTGGTGCATCCTGGTGGGCTGGCTCCTGGTAGCGGCCACC AGTGGGGTGGCGGCCTTCTTCACCATGCTCTACGGCCTGCACTACGGAGGGCC AGCTCCCTCAGGTGGCTCATCTCCATGGCTGTCTCCTTCGTGGAGAGCGTGTTC GTCACCCAGCCCCTGAAGGTGCTGGGATTCGCTGCTTTCTTTGCACTGGTCTTG AAGAGAGTGGACGATGAGGAGGATACTGTGGCCCCGCTGCCAGGACATCTGTTG GGCCCAGACCCCTATGCCTTGTTCCGAGCACGAAGAAACAGCAGCAGGGATGTC TACCAGCCACCTCTCACCGCTGCCATTGAGAAGATGAAAACCACCCACCTCAAG GAACAGAAAGCATTTGCCCTCATCAGAGAAATCCTGGCATACTTGGGCTTCCTG TGGATGCTACTGCTCGTGGCCTACGGGCAGAGGGACCCCAGCGCCTACCACCTC AACAGACACCTCCAGCACAGCTTCACCAGGGGCTTTTCAGGTGTGCTCGGCTTC CGAGAGTTCTTCAAGTGGGCCAACACCACCCTCGTGAGTAACCTGTATGGTCAC CCCCCAGGTAAGTCCTGA		KKREDPVTLTLGSSEMKEKSQCP KPKAARSGPWKDSAYRQCLYLQL EHVEQELRLVGPRGFPQHHSHAQ ALRQLQTLKGGLGVQPGTWAPAH ASALQVSKPPQGLPWWCILVGWL LVAATSGVAAFFTMLYGLHYGRA SSLRWLISMAVSFVESVFVTQPL KVLGFAAFFALVLKRVDDEEDTV APLPGHLLGPDPYALFRARRNSS RDVYQPPLTAAIEKMKTTHLKEQ KAFALIREILAYLGFLWMLLLVA YGQRDPSAYHLNRHLQHSFTRGF SGVLGFREFFKWANTTLVSNLYG HPPGKS*
Human Melatoni n 1a receptor _v4	7	prey3851	411	ATGGGAGGCGAGGAGAAGCCGATTGGTGCTGGTGAAGAGAAGCAAAAGGAAGGA GGCAAAAAGAAGAACAAAGAAGGATCTGGAGATGGAGGTCGAGCTGAGTTGAAT CCTTGGCCTGAATATATTTACACACGTCTTGAGATGTATAATATACTAAAAGCA GAACATGATTCCATTCTGGCAGAAAAGGCAGAAAAAGATAGCAAGCCAATTAAA GTCACTTTGCCTGATGGTAAACAGGTTGATGCGGAATCTTGGAAAACTACACCA TATCAAATTGCCTGTGGAATTAGTCAAGGCCTGGCCGACAACACCGTTATTGCT AAAGTAAATAATGTTGTGTGGGACCTGGACCGCCCTCTGGAAGAAGATTGTACC TTGGAGCTTCTCAAGTTTGAGGATGAGGAAGCTCAGGCAGTGTATTGGCACTCT AGTGCTCACATAATGGGTGAAGGCATGGAAAGAGTCTATGGTGGATGTTTATGC TACGGTCCGCCAATAGAAAATGGATTCTATTATGACATGTACCTCGAAGAAGGG GGTGTGTCTAGCAATGATTTCTCTTCTCTGGAGGCTTTGTGTAAGAAAATCATT AAAGAAAAACAAGCTTTTGAAAGACTGGAAGTTAAGAAAGAAACTTTACTGGCA ATGTTTAAGTACAACAAGTTCAAATGCCGGATATTGAATGAAAAGGTGAATACT	1149	MGGEEKPIGAGEEKQKEGGKKKN KEGSGDGGRAELNPWPEYIYTRL EMYNILKAEHDSILAEKAEKDSK PIKVTLPDGKQVDAESWKTTPYQ IACGISQGLADNTVIAKVNNVVW DLDRPLEEDCTLELLKFEDEEAQ AVYWHSSAHIMGEGMERVYGGCL CYGPPIENGFYYDMYLEEGGVSS NDFSSLEALCKKIIKEKQAFERL EVKKETLLAMFKYNKFKCRILNE KVNTPTTTVYRCGPLIDLCRGPH VRHTGKIKALKIHKNSSTYWEGK ADMETLQRIYGISFPDPKMLKEW

				CCAACTACCACAGTCTATAGATGTGGCCCTTTGATAGATCTCTGCCGGGGTCCT CATGTTAGACACACGGGCAAAATTAAGGCTTTAAAAATACACAAAAATTCCTCC ACGTACTGGGAAGGCAAAGCAGATATGGAGACTCTCCAGAGAATTTATGGCATT TCATTCCCAGATCCTAAAATGTTGAAAGAGTGGGAGAAGTTCCAAGAGGAAGCT AAAAACCGAGATCATAGGAAAATTGGCAGGGACCAAGAACTATATTTCTTTCAT GAACTCAGCCCTGGAAGTTGCTTTTTTCTGCCAAAAGGAGTCTATATTTATAAT GCACTTATTGAATTCATTAGGAGCGAATATAGGAAAAGAGGATTCCAGGAGGTA GTCACCCCAAACATCTTCAACAGCCGACTCTGGATGACCTCGGGCCACTGGCAG CACTACAGCGAGAACATGTTCTCCTTTGAGGTGGAGAAGGAGCTGTTTGCCCTG AAACCCATGAACTGCCCAGGACACTCCCTTATGTTTGATCATCGGCCAAGGTCC TGGCGAGAACTGCCTCTGCGGCTAGCTGATTTTGGGGGTCTTCATAGGAACGAG CTGTCTGGAGCACTCACAGGACTCACCCGGGTACGAAGATTCCAACAGGATGAT GCTCACATATTCTGTGCCATGGAGCAGATTGAAGATGAAATAAAAGGTTGTTTG GATTTTCTACGTACGGTATATAGCGTATTTGGATTTTCTTTTAAACTAAACCTT TCTACTCGCCCGGAAAAATTCCTTGGAGATATCGAAGTATGGGATCAAGCTGAG AAACAACTTGAAAACAGTCTGAATGAATTTGGTGAAAAGTGGGAGTTAAACTCT GGAGATGGAGCTTTCTATGGCCCAAAGATTGACATACAGATTAAAGATGCGATT GGGCGGTACCACCAGTGTGCAACCATCCAGCTGGATTTCCAGTTGCCCATCAGA TTTAATCTTACTTATGTAAGCCATGATGGTGAGGATAAGAAAAGGCCAGTGATT GTTCATCGAGCCATCTTGGGATCAGTGGAAAGAATGATTGCTATCCTCACAGAA AACTATGGGGGCAAATTGGCCCCCTTTTGGCTGTCCCCTCGCCAGGTAATGGTA GTTCCAGTGGGACCAACCTGTGATGAATATGCCCAAAACGTACGACAACAATTC CACGATGCCAAATTCATGGCAGACATTGATCTGGATCCAGGCTGTACATTGAAT AAAAAGATTCGAAATGCACAGTTAGCACAGTATAACTTCATTTTAGTTGTTGGT GAAAAAGAGAAAATCACTGGCACTGTTAATATCCGCACAAGAGACAATAAGGTC CACGGGGAACGCACCATTTCTGAAACTATCGAGCGGCTACAGCAGCTCAAAGAG TTCCGCAGCAAACAGGCAGAAGAAGAATTTTAA		EKFQEEAKNRDHRKIGRDQELYF FHELSPGSCFFLPKGVYIYNALI EFIRSEYRKRGFQEVVTPNIFNS RLWMTSGHWQHYSENMFSFEVEK ELFALKPMNCPGHSLMFDHRPRS WRELPLRLADFGGLHRNELSGAL TGLTRVRRFQQDDAHIFCAMEQI EDEIKGCLDFLRTVYSVFGFSFK LNLSTRPEKFLGDIEVWDQAEKQ LENSLNEFGEKWELNSGDGAFYG PKIDIQIKDAIGRYHQCATIQLD FQLPIRFNLTYVSHDGEDKKRPV IVHRAILGSVERMIAILTENYGG KLAPFWLSPRQVMVVPVGPTCDE YAQNVRQQFHDAKFMADIDLDPG CTLNKKIRNAQLAQYNFILVVGE KEKITGTVNIRTRDNKVHGERTI SETIERLQQLKEFRSKQAEEEF*
Human Melatoni n 1a receptor _v4	7	prey94840	412	CGNCTNAGCCTTCTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCTANAGA TGGGGTCTCATCATTGTNCGACCAGGNTGGTCTCAAACTCNNGGACCTTANGTG ATCCACCCCCCTGAGCCTCCCCNNACTGCTGGGATTTAGAGGGTGTGAAGCCAC CCNCCNCCCCCAGNCCTTGCTTTNTAAATTTNNGANNTAAGNNTTTNATAGCNC NGCCCCCTGNNCGGGCNNAATGANGCTTGCNTATTGCCTTNGAGATGAGGANAN ACNTNNTNAGGGAAGTGGGNTTTNNGNCCTGNAANAGGTCNANAGTGGGNNTTT GCNNTNGTGNACTGAGNCCCANGNTANGGGNNAGANNANTGAGCCNCCNNCCNC TNCTNTTGGCCNNGCCGTCGNNNCNNCACGNANTGNTTNNGTNNNGGCNNNGGN NAGCACGNGN	1150	RLSLLXXXXXXXXXXXXXXXXX XXXXXXXXXXXXRWGLIIVRPGW SQTXGPXVIHPPEPPXTAGI*RV *SHPPPPXLAX*IXXXXXX*XXP LXGXNXACXLPXR*GXTXXGKWX XXPXXGXXWXFAXVX*XPXXGXX X*AXXXXXWPXRRXXTXXXXXGX GXHX
Human Melatoni	7	prey94843	413	TCTGTTTCTCTCTCCAAGAATGTAAGCTTGAGGAAGACAGGAATTTTTGCCTAT TTTGCAAACTAATGTATCTCCAGCACCTATAAGTAGCATGAATGTGGTCTCTTC	1151	SVSLSKNVSLRKTGIFAYFAN*C ISSTYK*HECGLFKAWYLVGTQ*

n 1a receptor _v4				AAAGCCTGGTACTTGGTAGGCACTCAATAAATAGAATAAATAGTTATTGAATGC ATAAATAAATGAATGAATGAAACTAAATACGCATAAAGCAGCTGTCACCAGGTG ACAGATTATTGAGAAATCCCAGAGCAAAGGAAGCAATAAAGAAAAGATGAGTTT GGGAGGGTAATGAAAAGCTCAGTCTTGGCAGAGAGGAAAGCAGAGGGACCCCTG GCTGNCTTTTTCCTTTCTTTCAACCCACNANNAAAANNACGGGAGCCTGGNCCN NNNNGGNACCTTCNNNANNNTTGGNGGGGCCNGTNN		IE*IVIECINK*MNETKYA*SSC HQVTDY*EIPEQRKQ*RKDEFGR VMKSSVLAERKAEGPLAXFFLSF NPXXKXREPGPXXXLXXXWXGXX
Human Melatoni n 1a receptor _v4	7	prey94846	414	TTATTTCTTGTCTTCTTCTAGCTTTTGGATTAGTACTTTTTACTTTATAAACTC TATGACTATAAAATTATACTACAGATAATAAATAAGCCAAAGGCGTATTTAGGA ATCAAACATGACCAAGTAGTCTGTTAAAATTTGAAAATGATCTGCTGACAGTCT CATCTTGCAGTACATAGGCACGTTAGCCATGATGTGGATGTCAGTGATCCTGAA ATGTTTATGTTGTACAGTTCCCTGCTTCACTTGCAGGAGCTCTGCTCCTTTCTC CTCACCCATTACCAANGAAANANATGGGCNGNTNGCGNGGGATTGNACATNACA GGGGCNGAATNTGTNTTNAGGGGGGGGNGGGCCCCCNGGGCCNNCNCTTANNAA NNNNGNGGANNNNNANNCCGCNCNGNGGGGTGGGATGANTGNGN	1152	LFLVFF*LLD*YFLLYKLYDYKI ILQIINKPKAYLGIKHDQVVC*N LKMIC*QSHLAVHRHVSHDVDVS DPEMFMLYSSLLHLQELCSFLLT HYQXXXWAXXXGLXXTGAEXVXR GGXAPXAXXXXXXGXXXRXXGWD XX
Human Melatoni n 1a receptor _v4	7	prey3756	415	GCGGGAGCAGCTGGAGCTGCGTCTGCGGACTCGCCTGGAGCAGGAACTCAAGGC CCTGCGTGCACAGCAGAGACAGGCAGGTGCCCCAGGTGGTAGCAGTGGCAGTGG TGGGTCTCCAGAGCTCAGCGCCCTGCGACTGTCAGAACAACTGCGAGAGAAGGA GGAGCAGATCCTGGCGCTGGAGGCCGACATGACCAAGTGGGAGCAGAAGTATTT GGAGGAACGTGCCATGAGGCAGTTTGCCATGGATGCGGCTGCCACGGCTGCTGC TCAGCGTGACACCACTCTCATCCGACATTCCCCCCAGCCCTCACCCAGCAGCAG CTTCAATGAGGGCCTGCTCACTGGTGGCCACAGGCATCAGGAGATGGAAAGCAG GTTAAAGGTGCTCCATGCCCAGATCCTGGAGAAGGATGCAGTGATCAAGGTCCT TCAGCAGCGCTCCAGGAGAGACCCTGGCAAGGCCATCCAGGGCTCCCTGCGGCC TGCCAAGTCGGTGCCATCTGTTTTCGCGGCTGCGGCAGCAGGAACCAAGGGCTG GCAAGGGCTCTCTTCTAGTGAGCGACAAACAGCAGACGCCCCTGCTCGGCTGAC TACAGACAGAGCACCCACAGAGGAGCCAGTGGTCACAGCTCCCCCTGCTGCCCA TGCCAAACACGGGAGCAGAGATGGGAGCACCCAGACTGACGGCCCCCCAGACAG CACCTCCACCTGCCTGCCACCGGAGCCTGACAGCCTTCTGGGGTGCAGCAGTAG CCAGAGAGCAGCCTCTCTGGACTCTGTAGCTACATCCAGAGTCCAGGACTTGTC AGACATGGTGGAGATACTGATCTGA	1153	REQLELRLRTRLEQELKALRAQQ RQAGAPGGSSGSGGSPELSALRL SEQLREKEEQILALEADMTKWEQ KYLEERAMRQFAMDAAATAAAQR DTTLIRHSPQPSPSSSFNEGLLT GGHRHQEMESRLKVLHAQILEKD AVIKVLQQRSRRDPGKAIQGSLR PAKSVPSVFAAAAAGTKGWQGLS SSERQTADAPARLTTDRAPTEEP VVTAPPAAHAKHGSRDGSTQTDG PPDSTSTCLPPEPDSLLGCSSSQ RAASLDSVATSRVQDLSDMVEIL I*
Human Melatoni n 1a receptor _v4	7	prey94853	416	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCGATCCTCCTGCCTTGACCTTCCGA AGTGCTGGGATTACAGATATGAGCCACCACACCTGGCTGGAGTGACCTGCTAAG TTTTAATGGGATTCCTGGTGGGTTGGGTGATACCTGAGGGGACCTGCCTACTTG GGACTCGCCCCATGGAGGGCTCAGTGACCTCAGATGANCTGGAGGTGGGGAGGN GGNGGNCNNNCNAATGGNANGANGAANCTGNNTNGNGGNNNGNNCNCNNNGNNN CCGANTNGNNAGGNCNNGNCTTTTNCNGNNCTNCCNNCCNNNTNNNNNNNNTNN NNNNNGNGNNGNNNNNNNNNNNNNANCNN	1154	XXXXXXXXXXXXXXXXXXXXXXX XXXXXDPPALTFRSAGITDMSHH TWLE*PAKF*WDSWWVG*YLRGP AYLGLAPWRAQ*PQMXWRWGGGG XXNGXXXLXXGXXXXXPXXXXXX FXXLPXXXXXXXXXXXXXX
Human	7	prey94856	417	CACTTTACTTCGTTTACTGCTCACAAACCCTGTAGGATAACTTTGATCTTCTTT	1155	HFTSFTAHKPCRITLIFF*DEET

Melatonin 1a receptor _v4				TAAGATGAGGAAACTACGGCACAGACAGGTTGCTATAGTACTCCATTGTATTAA TATGCCATACCTTATCCATTCTCCTGCTTAATTCCTCAAACTTTGTAGATATTC AGCTGCTAGTTAAGAATGTGGTAACATTTGTGTTGCCCATAATTTTGCTTTGTG ACGTTTCTAATATATNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNACCCT		TAQTGCYSTPLY*YAIPYPFSCL IPQTL*IFSC*LRMW*HLCCP*F CFVTFLIYXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXT
Human Melatonin 1a receptor _v4	7	prey94858	418	TTGTCTACTTCTCCGTCTCACTCTACTATCTGCCTTAGTTACTTATACTCTTAT TCATTTATCTTCTTTTAATTCCACTAACACATTAGTGGTGTTCTCCTCTTCACC CCTTCACACATGCTGNTCTGTCTGTGAGAATGCTTTCTCTGCGCCTCCAGTCCC CGTNTCTTTNCTTCATTTACNTGGNTATTTCTCATCCTTTGAATCTNGCTTNGA AGTNATTTACTCACAGAGGCCNTTCCTGGAGGANCNGNTGGNGNGGGGNGCGNC GCCNGGNGNGCTTNTTGNNNGNTGGNTNCNGNTGNNCGGCGGCNNTGCTGGNTG GGCGCGGNCGGCGGNGGCCGGTNNGNNNGACANGANTTCANGNCCCCNCNCCGG GNGNNGCGNAGGNNNGCNTGNGCGAGCCNNGTGAG	1156	LSTSPSHSTICLSYLYSYSFIFF *FH*HISGVLLFTPSHMLXCL*E CFLCASSPRXFXSFTWXFLIL*I XLXSXLLTEAXPGGXXGXGXXAX XAXXXXXXXXRRXCWXGAXGGGR XXXXXFXXPXRXXRRXAXASXV
Human Melatonin 1a receptor _v4	7	prey94860	419	TTTTTCTTAGTTTTTTTTAGACCATGTCTCACTTTATTGCCCAGGCCAGAGTG CAGAGGCATGATCACTACTCACTATAGCCTTAACCTCCTGGGCTCAGGCGATCC TCCCAGCTTAGCCTCCAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCCTA GCAGNCAGGGGTGAGTCACTGCNCCTGGCCAGNGGAAGAGTTTATAATCTTCA AATACACCCCTGCNCATTTTCNGGTCACGGNNNTTCTTTTGNCTTGGATNCNNG NTNNGNNNAANGNATNAGGNGNN	1157	FFLVFF*TMSHFIAQARVQRHDH YSL*P*PPGLRRSSQLSLQXXXX XXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXLAX RGESLXLAXGRVL*SSNTPLXIF XSRXFFXLGXXXXXXXXX
Human Melatonin 1a receptor _v4	7	prey94871	420	ATTTTTAAAGACAGAAAATTTTTTGTATTTTTCTGATGTATGAAACACTGTCAA AATTAACAAATTACTGAATCATGAGTATAGAAAGACTCACAAACAATTCATAAA AATAAATCATTGACTTTTTCTAAGATTTTATTCAAGACTTTTATAAAACATTAA TAATGTNCCTAAAAATATATATATGTNGAATTTTNAAAAGAAATGTTTTNACAG GAAGATGGGCNAACNTNGGCGGAGNGAACGAAATNACTGNGAAGGTNNGGGNAT GTTGGGGNGGGAACGTGGTTGNGNGGNGGNCTNTTGNTTGNCGCGAGGGNGGGG NGANGGTGGGCGGGGNNNGGNCGGGGGCGGGGGGGGANNGNGNTNGNGGGGGGG GGGGGGTGGGNNNCGNGNNCNNGGGGGTTTGGGGGNGGNCNCNNNGTNNGGGGG NNTGGTCN	1158	IFKDRKFFVFF*CMKHCQN*QIT ES*V*KDSQTIHKNKSLTFSKIL FKTFIKH**CX*KYIYVEFXKEM FXQEDGXTXAEXTKXLXRXGXVG XGTWLXGGLLXXARXGXXWAGXG RGRGGXXXXGGGGWXXXXXGFGG GXXVXGXG
Human Melatonin 1a receptor _v5	8	prey2109	421	TATCGATGAAATCTACAAATACGACAAGAAACAGCAGCAAGAAATCCTGGCGGC GAACCTTGGGACTAAGGATCACCATTACTTTAAGTACTGCAAAATCTCAGCATT GGCTCTTCTGAAGATGGTGATGCATGCCAGATCGGGAGGCAATTTGGAAGTGAT GGGTCTGATGCTAGGAAAGGTGGATGGTGAAACCATGATCATTATGGACAGTTT TGCTTTGCCTGTGGAGGGCACTGAAACCCGAGTAAATGCTCAGGCTGCTGCATA TGAATACATGGCTGCATACATAGAAAATGCAAAACAGGTTGGCCGCCTTGAAAA TGCAATCGGGTGGTATCATAGCCACCCTGGCTATGGCTGCTGGCTTTCTGGGAT	1159	IDEIYKYDKKQQQEILAANLGTK DHHYFKYCKISALALLKMVMHAR SGGNLEVMGLMLGKVDGETMIIM DSFALPVEGTETRVNAQAAAYEY MAAYIENAKQVGRLENAIGWYHS HPGYGCWLSGIDVSTQMLNQQFQ EPFVAVVIDPTRTISAGKVNLGA

				TGATGTTAGTACTCAGATGCTCAATCAGCAGTTCCAGGAACCATTTGTAGCAGT GGTGATTGATCCAACAAGAACAATATCCGCAGGGAAAGTGAATCTTGGCGCCTT TAGGACATACCCAAAGGGCTACAAACCTCCTGATGAAGGACCTTCTGAGTACCA GACTATTCCACTTAATAAAATAGAAGATTTTGGTGTACACTGCAAACAATATTA TGCCTTAGAAGTCTCATATTTCAAATCCTCTTTGGATCGCAAATTGCTTGAGCT GTTGTGGAATAAATACTGGGTGAATACGTTGAGTTCTTCTAGCTTGCTTACTAA TGCAGACTATACCACTGGTCAGGTCTTTGATTTGTCTGAAAAGTTAGAGCAGTC AGAAGCCCAGCTGGGACGAGG		FRTYPKGYKPPDEGPSEYQTIPL NKIEDFGVHCKQYYALEVSYFKS SLDRKLLELLWNKYWVNTLSSSS LLTNADYTTGQVFDLSEKLEQSE AQLGR
Human Melatonin 1a receptor _v5	8	prey36384	422	CAACTCCAACGGGCTGAAATTGGACCCCGCAGACCCAGAAAACCCCAGAAGTGG TGATACAGTGGAAGTACAAGTGAATGGAAATCTTGTCAGAGAACCTGACCATAT GGAACTGGAAGAAGATAGGGCTGGACAACTTAACATGCGTGGAGTTTTTCTGCA TGTCCTTGGAGATGCCTTGGGTTCAGTGATTGTAGTAGTAAATGCCTTAGTCTT TTACTTTTCTTGGAAAGGTTGTTCTGAAGGGGATTTTTGTGTGAATCCATGTTT CCCTGACCCCTGCAAAGCATTTGTAGAAATAATTAATAGTACTCATGCATCAGT TTATGAGGCTGGTCCTTGCTGGGTGCTATATTTAGATCCAACTCTTTGTGTTGT AATGGTTTGTATACTTCTTTACACAACCTATCCATTACTTAAGGAATCTGCTCT TATTCTTCTACAAACTGTTCCTAAACAAATTGATATCAGAAATTTGATAAAAGA ACTTCGAAATGTTGAAGGAGTTGAGGAAGTTCATGAATTACATGTTTGGCAACT TGCTGGAAGCAGAATCATTGCCACTGTTCACATAAAATGTGAAGATCCAACATC ATACATGGAGGTGGCTAAAACCATTAAAGACGTTTTTCATAATCACGGAATTCA CGCTACTACCATTCAGCCTGAATTTGCTAGTGTAGGCTCTAAATCAAGTGTAGT TCCGTGTGAACTTGCCTG	1160	NSNGLKLDPADPENPRSGDTVEV QVNGNLVREPDHMELEEDRAGQL NMRGVFLHVLGDALGSVIVVVNA LVFYFSWKGCSEGDFCVNPCFPD PCKAFVEIINSTHASVYEAGPCW VLYLDPTLCVVMVCILLYTTYPL LKESALILLQTVPKQIDIRNLIK ELRNVEGVEEVHELHVWQLAGSR IIATVHIKCEDPTSYMEVAKTIK DVFHNHGIHATTIQPEFASVGSK SSVVPCELA
Human Melatonin 1a receptor _v5	8	prey96089	423	TGCAATATGAACCAAATTGTCTTTCAAGGGCTTCTAAATTACTGAATTGGATCT TGAATTTCCTGAACTTTACTTGTTGGGGCATGTTCTTTAAAGAAAAGCTTGTAT AAAAAAGGGTTTGTAATCCATATACAATAGGGATCTCAACTGTTTTCTGAAGCG CAATTTATTTTTCTCATATACTTTTCTTAAATTAAGTTTAGCTTAATGTTGCCT CCTTACATATTTTAAGTTTGGACTAAAGGTTTCTCCACACATAATGACCTG	1161	CNMNQIVFQGLLNY*IGS*IS*T LLVGACSLKKSLYKKGFVIHIQ* GSQLFSEAQFIFLIYFS*IKFSL MLPPYIF*VWTKGFSTHNDL
Human Melatonin 1a receptor _v5	8	prey2557	424	ACGGCGGCCTCTGAGCACCTCGGAGAAAGTGAAGGTCCGCACGCTGAGCGTGGA GCAGAGGACCCGTGAGGACATTGAAGGCAGCCACTGGAATGAGGGCTTGCTGCT GGGGCGGCCCCCCGAGGAGCCTGAGCAGCCCCTCACCGAGAACTCGCTGCTGGA AGTCCTGGATGGGGCGGTCATGATGTACAACCTCAGCGTACACCAGCAGCTGGG CAAGATGGTGGGTGTCTCCGATGATGTCAATGAATACGCTATGGCTCTGAGGGA CACAGAGGACAAGCTCCGCCGGTGCCCCAAGAGGAGGAAGGACATCCTTGCAGA GTTGACCAAGAGCCAGAAGGTTTTCTCAGAAAAGCTGGACCACCTGAGCCGCCG TCTTGCCTGGGTCCATGCCACTGTCTACTCCCAGGAGAAGATGCTGGACATCTA CTGGCTGCTGCGCGTCTGCCTGCGGACCATTGAGCACGGTGATCGCACAGGGTC TCTCTTTGCCTTCATGCCCGAGTTCTACCTGAGCGTGGCCATCAACAGCTACAG TGCTCTCAAGAATTACTTTGGTCCCGTGCACAGCATGGAGGAGCTCCCAGGCTA TGAAGAGACCCTGACCCGCCTGGCTGCCATTCTCGCCAAACACTTTGCCGAC	1162	RRPLSTSEKVKVRTLSVEQRTRE DIEGSHWNEGLLLGRPPEEPEQP LTENSLLEVLDGAVMMYNLSVHQ QLGKMVGVSDDVNEYAMALRDTE DKLRRCPKRRKDILAELTKSQKV FSEKLDHLSRRLAWVHATVYSQE KMLDIYWLLRVCLRTIEHGDRTG SLFAFMPEFYLSVAINSYSALKN YFGPVHSMEELPGYEETLTRLAA ILAKHFAD

Human Melatonin 1a receptor _v5	8	prey36832	425	ATGGACCCCCGCAAAGTGAACGAGCTTCGGGCCTTTGTGAAAATGTGTAAGCAGGATCCGAGCGTTCTGTACACCGAGGAAATGCGCTTCCTGAGGGAGTGGGTGGAGAGCATAGGTGGTAAAGTACCACCTGCTACTCAGAAAGCTATATCAGAAGAAAATACCAAGGAAGAAAAACCTGATAGTAAGAAGGTGGAGGAAGACTTAAAGGCAGACGAACCATCAAGTGAGGAAAGTGATCTAGAAATTGATAAAGAAGGTGTGATTGAACCAGACACTGATGCTCCTCAAGAAATGGGAGATGAAAATGCGGAGATAACGGAGGAGATGATGGATCAGGCAAATGATAAAAAAGTGGCTGCTATTGAAGCCCTAAATGATGGTGAACTCCAGAAAGCCATTGACTTATTCACAGATGCCATCAAGCTGAATCCTCGCTTGGCCATTTTGTATGCCAAGAGGGCCAGTGTCTTCGTCAAATTACAGAAGCC	1163	MDPRKVNELRAFVKMCKQDPSVLYTEEMRFLREWVESIGGKVPPATQKAISEENTKEEKPDSKKVEEDLKADEPSSEESDLEIDKEGVIEPDTDAPQEMGDENAEITEEMMDQANDKKVAAIEALNDGELQKAIDLFTDAIKLNPRLAILYAKRASVFVKLQK
Human Melatonin 1a receptor _v5	8	prey96100	426	TTATTTCTTGTCTTCTTCTAGCTTTTGGATTAGTACTTTTTACTTTATAAACTCTATGACTATNAAATTATACTACAGATAATAAATAAGCCAAAGGCGTATTTAGGAATCAAACATGACCAAGTAGTCTGTTAAAATTTGAAAATGATCTGCTGACAGTCTCATCTTGCAGTACATAGGCACGTTAGCCATGATGTGGATGTCAGTGATCCTGAAATGTTTATGTTGTACAGTTCCCTGCTTCACTTGCAGGAGCTCTGCTCCTTTCTCCTCACCCATTACCAATGAAAGATATGGCCAGTTGCTTGGGATTGTACATCACAGGGCAAATCTGTTTTCAGAGGGGTGGCCCCAGGGCAACCTTAGAATTGTATGAGAGAATACCAACAAGTGTGGATAATGAATACCAGATTTTGCTAAAAAGATTGGAATGCCCAGGCAGAAGGTTTTCTAAGACAGACAAAAAATAACTGATAATCTCTCCAGG	1164	LFLVFF*LLD*YFLLYKLYDYXIILQIINKPKAYLGIKHDQVVC*NLKMIC*QSHLAVHRHVSHDVDVSDPEMFMLYSSLLHLQELCSFLLTHYQ*KIWPVAWDCTSQGKSVFRGVAPGQP*NCMREYQQVWIMNTRFC*KDWNAQAEGFLRQTKNN**SLQ
Human Melatonin 1a receptor _v5	8	prey3518	427	ATGGAGCCGCCGAATCTCTATCCGGTGAAGCTCTACGTGTACGACCTGTCCAAAGGCCTGGCCCGGCGGCTCAGCCCCATCATGCTGGGGAAACAACTGGAAGGCATCTGGCACACATCCATAGTTGTGCACAAGGATGAGTTCTTCTTCGGCAGTGGTGGTATCTCCAGCTGCCCCCCGGGAGGGACATTGCTTGGGCCTCCAGACTCTGTGGTTGATGTGGGGAGTACAGAAGTCACAGAAGAAATCTTTCTGGAGTACCTCTCCTCCCTGGGGGAGTCCCTGTTCCGAGGTGAGGCCTACAACCTCTTTGAACACAATTGTAACACCTTCAGCAACGAAGTGGCACAGTTCCTGACTGGGCGGAAGATTCCTTCTTACATCACAGACCTGCCCT	1165	MEPPNLYPVKLYVYDLSKGLARRLSPIMLGKQLEGIWHTSIVVHKDEFFFGSGGISSCPPGGTLLGPPDSVVDVGSTEVTEEIFLEYLSSLGESLFRGEAYNLFEHNCNTFSNEVAQFLTGRKIPSYITDLP
Human Melatonin 1a receptor _v5	8	prey96113	428	GTGTGTGCAAGTATGCTTGTATTTTTTTAACGATAATATGGTCACATGAGCATTAAATTTATTTTTTTAAAGTTTATAGTTACCCCACACAAGTTCTTATTGATTCCCTCGTTCTTAACACCTGCATAGTATTTCATTTTATAATTAATGGATTGTAGGTTTATTCTTTTAAAATCACTTGTGTTGTTCTCATGTTTTTTTTTTTTTNNTNAAAANGGGTNGNANNNCNNAAACTTAAAATTNTAGGNGGGTTTTTTTTNGANTTTTTNTAAA	1166	VCASMLVFF*R*YGHMSIKFIFLKFIVTPHKFLLIPSFLTPA*YFIL*LMDCRFILLKSLVLFSCFFFFXXXGXXXXNLKX*XGFFXXFXK
Human Melatonin 1a receptor _v5	8	prey96127	429	AATTTTATAATCAACTTGTTAAGTACCAAAAAAGCTCTGCCAGAATTTTGATCATAACTCCATTGAAACCGTGTATCAAGTGGGGGGAATTCTCATCTTTGTAATATTGAATCTTCTGATCCATGAACATTGTATGTCTCTTAAGTCCTTGATTTCTTTAAGTAAAGTTTTTATAATTTCTCTATAGAGGTCTTTTCTATTTGTGGTTAGCTTTATTTTTGGGTACTTTACATTTTCTGTTGCTATCATTAGTANTATTTTATGCC	1167	NFIINLLSTKKALPEF*S*LH*NRVSSGGNSHLCNIESSDP*TLYVS*VLDFFK*SFYNFLYRGLFYLWLALFLGTLHFLLLSLVXFYA

Human Melatonin 1a receptor _v5	8	hgx33	430	CCAGACGGCTGCCCTTCAAGTACCAACCCTGGTGGGCAGCAGTGGGACCATTCT GACCACAATGCCTGTAATGATGGGGCAAGAGAAAGTGCCCATTAAGCAGGTACC TGGGGGAGTCAAGCAGCTTGAGCCCCCCAAAGAAGGAGAAAGGCGGACAACCCA TAATATCATTGAGAAACGATATCGCTCCTCCATCAATGACAAAATCATCGAATT GAAAGACCTGGTCATGGGGACAGACGCCAAGATGCACAAGTCTGGCGTTCTGAG GAAGGCCATTGATTACATCAAATACTTGCAGCAGGTCAATCATAAACTGCGCCA GGAGAACATGGTGCTGAAGCTGGCAAATCAAAAGAACAAGCTTCTAAAGGGCAT CGACCTAGGCAGTCTGGTGGACAATGAGGTGGACCTGAAGATCGAGGACTTTAA TCAGAATGTCCTTCTGATGTCCCCCCCAGCCTCTGACTCAGGGTCCCAGGCTGG CTTCTCTCCCTACTCCATTGACTCTGAGCCAGGAAGCCCTCTATTGGATGATGC AAAGGTCAAAGATGAGCCAGACTCTCCTCCTGTGGCGCTGGGCATGGTAGACCG CTCACGGATTCTTCTGTGTGTCCTCACCTTCCTGTGCCTCTCCTTTAACCCCC	1168	QTAALQVPTLVGSSGTILTTMPV MMGQEKVPIKQVPGGVKQLEPPK EGERRTTHNIIEKRYRSSINDKI IELKDLVMGTDAKMHKSGVLRKA IDYIKYLQQVNHKLRQENMVLKL ANQKNKLLKGIDLGSLVDNEVDL KIEDFNQNVLLMSPPASDSGSQA GFSPYSIDSEPGSPLLDDAKVKD EPDSPPVALGMVDRSRILLCVLT FLCLSFNP
Human Melatonin 1a receptor _v5	8	prey96124	431	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNCGATCCTCCTGCCTTGACCTTCCGA AGTGCTGGGATTACAGATATGAGCCACCACACCTGGCTGGAGTGACCTGCTAAG TTTTAATGGGATTCCTGGTGGGTTGGGTGATACCTGAGGGGACCTGCCTACTTG GGACTCGCCCCATGGAGGGCTCAGTGACCTCAGATGAGCTGGAGGTGG	1169	XXXXXXXXXXXXXXXXXXXXXXX XXXXXDPPALTFRSAGITDMSHH TWLE*PAKF*WDSWWVG*YLRGP AYLGLAPWRAQ*PQMSWRW
Human Melatonin 1a receptor _v5	8	prey96125	432	AATGCCCTTTTAATGACACTTGAAATTAATTCCTTTAGTGTAATCCTCTAGCAA AGAGATGAGAAAACTGAATTTGTAAAGCTTAATTTTACCCAGAGATTTTGGTGT AGAAAAGGGCCATACATTTGTGAATAGATGCTTAAGTAGGTGATGAAAATAAAA TATCATTTGAGCAAACTGTCCTATACCAGAAAGTCTCAGGCACCAAAATAGCTT GGCAGGTTGTAAGATAATGTTCACTTCAAGGCTTTATCCTCAACAAATTAAAC	1170	NALLMTLEINSFSVIL*QRDEKT EFVKLNFTQRFWCRKGPYICE*M LK*VMKIKYHLSKLSYTRKSQAP K*LGRL*DNVHFKALSSTN*
Human Melatonin 1a receptor _v5	8	prey3033	433	ATGGCGGGGGCTGGTTCCGCCGCTGTATCGGGGGCAGGGACCCCGGTGGCGGGG CCCACAGGCCGCGACCTTTTCGCCGAAGGGCTGCTGGAGTTCCTGCGACCCGCT GTGCAGCAGCTCGACTCTCACGTACACGCCGTCAGAGAGAGCCAGGTAGAGCTC CGGGAACAAATTGACAACCTAGCCACAGAACTGTGCCGCATAAATGAGGATCAG AAGGTGGCCCTGGATCTTGACCCCTATGTTAAGAAGCTACTTAATGCCCGGCGA CGCGTTGTCTTGGTTAACAACATTCTACAGAATGCTCAGGAACGACTGAGACGG CTAAACCACAGTGTTGCCAAGGAAACAGCCCGCAGGAGAGCAATGCTGGATTCG GGAATTTACCCCCCTGGCTCCCCAGGCAAATAA	1171	MAGAGSAAVSGAGTPVAGPTGRD LFAEGLLEFLRPAVQQLDSHVHA VRESQVELREQIDNLATELCRIN EDQKVALDLDPYVKKLLNARRRV VLVNNILQNAQERLRRLNHSVAK ETARRRAMLDSGIYPPGSPGK*
Human SOCS3_v1	9	prey14439	434	GGGGGATAGTGAGAGTGAAGGCCTGAACAGCCCTGTCAAAGTTGCTCGAAAGCG GAAGAGAATGGTGACTGGAAATGGCTCTCTTAAAAGGAAAAGCTCTAGGAAGGA AACGCCCTCAGCCACCAAACAAGCAACTAGCATTTCATCAGAAACCAAGAATAC TTTGAGAGCTTTCTCTGCCCCTCAAAATTCTGAATCCCAAGCCCACGTTAGTGG AGGTGGTGATGACAGTAGTCGCCCTACTGTTTGGTATCATGAAACTTTAGAATG GCTTAAGGAGGAAAAGAGAAGAGATGAGCACAGGAGGAGGCCTGATCACCCCGA TTTTGATGCATCTACACTCTATGTGCCTGAGGATTTCCTCAATTCTTGTACTCC TGGGATGAGGAAGTGGTGGCAGATTAAGTCTCAGAACTTTGATCTTGTCATCTG TTACAAGGTGGGGAAATTTTATGAGCTGTACCACATGGATGCTCTTATTGGAGT	1172	GDSESEGLNSPVKVARKRKRMVT GNGSLKRKSSRKETPSATKQATS ISSETKNTLRAFSAPQNSESQAH VSGGGDDSSRPTVWYHETLEWLK EEKRRDEHRRRPDHPDFDASTLY VPEDFLNSCTPGMRKWWQIKSQN FDLVICYKVGKFYELYHMDALIG VSELGLVFMKGNWAHSGFPEIAF GRYSDSLVQK

				CAGTGAACTGGGGCTGGTATTCATGAAAGGCAACTGGGCCCATTCTGGCTTTCC TGAAATTGCATTTGGCCGTTATTCAGATTCCCTGGTGCAGAAGGG		
Human SOCS3_v1	9	prey95617	435	AGTCGATAGTGACAGGCCAGAAAGGTCCAAGTTCCGGCTCACTGGAAAGGGAGT GGATCAAGAGCCTAAAGGAATTTTCAGAATCAATGAGAACACAGGGAGCGTCTC CGTGACACGGACCTTGGACAGAGAAGTAATCGCTGTTTATCAACTATTTGTGGA GACCACTGATGTCAATGGCAAAACTCTCGAGGGGCCGGTGCCTCTGGAAGTCAT TGTGATTGATCAGAATGACAACCGACCGATCTTTCGGGAAGGCCCCTACATCGG CCACGTCATGGAAGGGTCACCCACAGGCACCACAGTGATGCGGATGACAGCCTT TGATGCAGATGACCCAGCCACCGATAATGCCCTCCTGCGGTATAATATCCGTCA GCAGACGCCTGACAAGCCATCTCCCAACATGTTCTACATCGATCCTGAGAAAGG AGACATTGTCACTGTTGTGTCACCTGCGCTGCTGGACCGAGAGACTCTGGAAAA TCCCAAGTATGAACTGATCATCGAGGCTCAAGATATGGCTGGACTGGATGTTGG ATTAACAGGCACGGCCACAGCCACGATCATGATCGATGACAAAAATGATCAC	1173	VDSDRPERSKFRLTGKGVDQEPK GIFRINENTGSVSVTRTLDREVI AVYQLFVETTDVNGKTLEGPVPL EVIVIDQNDNRPIFREGPYIGHV MEGSPTGTTVMRMTAFDADDPAT DNALLRYNIRQQTPDKPSPNMFY IDPEKGDIVTVVSPALLDRETLE NPKYELIIEAQDMAGLDVGLTGT ATATIMIDDKNDH
Human SOCS3_v1	9	prey97180	436	GAGGGGGGAGGCACACCATCTCNAGGTCCTTTTATNNTCAGATGATGGTANGAT CCTGGCACCAATCAGCATGGACTGACTCNCAAACCACTGGCTGATTACGGACNG ANNNATNTGTGGAAANGATNNTTGATATGGNTAACANNGCCAAANTGGCAAGCG GGGGGGGGTGNTGTNGTNCNGGTGGGGANNNTNGGTGGTNTCTGTCGGGGTGGG GCGGGCGCGGAGCGGNNGGGGGGGGTGGGTNGGGGGGTGGGGGGGGGNCGCCN GGGGTTGNNTTGGGGGNGGGCNCNCGGCGNNGGGNGTNGGTCNCNNGGNGGGGC GGGNNNGTGNATCGNNCNGTTNGNNGNCCAGNNGGGNGGNGTGTGTNNGGGGNGN CGNGCGCGNGGNANNNGTGNNTANGG	1174	EGGGTPSXGPFXXR*WXDPGTNQ HGLTXKPLADYGXXXXWKXXLIW XTXPXWQAGGGXVVXVGXXGGXC RGGAGAERXGGVGXGVGGGXPGV XLGXGXRRXXXVXXXGGXVXRXV XXPXGXXVXGXRARGXXXX
Human SOCS3_v1	9	prey96856	437	AAAACCACAAGCGCCACCACCTACCCCACCCCCGGTGGCCGCTGTTCCTCCAAC TCCCCAGCCTTTAGCTCCTACACCTTCAGCACCCTGCCCAGCTACTCCTGCTGG ACCAAAGGGAAGGGTGTTTGTTAGCCCTCTTGCAAAGAAGTTGGCAGTAGAGAA AGGGATTGATCTTACACAAGTAAAAGGGACAGGACCAGATGGTAGAATCACCAA GAAGGATATCGACTCTTTTGTGCCTAGTAAAGTTGCTCCTGTACTTCTTCCTGC CCTCTCTCCCACCATGACCATGGGCACAGTTCAGAGATGGGAAAAAAAAGTGGG TGAGAAGCTAAGTGAAGGAGACTTACTGGCAGAGATAGAAACTGACAAAGCCAC TATAGGTTTTGAAGTACAGGAAGAAGGTTATCTGGCAAAAATCCTGGTCCCTGA AGGCACAAGAGATGTCCCTCTAGGAACCCCACTCTGTATCATTGTAGAAAAAGA GGCAGATATATCAGCATTTGCTGACTATAGGCCAACCGAAGTAACAGATTTAAA ACCACAAGTGCCACCACCTACCCCACCCCCGGTAGATACAGATACCATGCTTGT GGAAACCACCGCCGACACTCACCGGCGCTTCGATGCCGCGCCCGTGCCAGCCGC GCCCACGGCGCGTCCGAGAGCAGGGGCCGTCCCGCTCGCGGACGCTACCAGCTC GCTCGCCAGCAGGCGCAGCGCGACGGCACGCCCGGAGGAGCGCTGCCACGCGAC CACCGCACCGCCTCCCGCGCTCGCACGCCCGCAGCGGCCCGCGTCCGAACCGGC GCTAACACTGCGCCCCCTGCGCGGGACTGACGATCGCCTGGCACCGCGTCTCCA TGGAGTCCTGCCCACTACCGGTCCGCCGTTGGGCAGCGACCAGTACGAGGCGTC TCCGTTCCGAACCCCTCTGTCTGTCTCACCCATCCTTACTGACATGGGTCGCGA	1175	KPQAPPPTPPPVAAVPPTPQPLA PTPSAPCPATPAGPKGRVFVSPL AKKLAVEKGIDLTQVKGTGPDGR ITKKDIDSFVPSKVAPVLLPALS PTMTMGTVQRWEKKVGEKLSEGD LLAEIETDKATIGFEVQEEGYLA KILVPEGTRDVPLGTPLCIIVEK EADISAFADYRPTEVTDLKPQVP PPTPPPVDTDTMLVETTADTHRR FDAAPVPAAPTARPRAGAVPLAD ATSSLASRRSATARPEERCHATT APPPALARPQRPASEPALTLRPL RGTDDRLAPRLHGVLPTTGPPLG SDQYEASPFRTPLSVSPILTDMG RDPSHPRCAYARARVLSASSLRH NPDSLPLRRQLFLPCVPPIFLEH SMNTY*

				CCCATCTCATCCCCGATGCGCCTACGCCAGGGCGCGAGTCCTGTCGGCGTCATC ACTCCGGCATAACCCAGACTCGCTGCCTCTCCGTCGCCAACTCTTTCTTCCCTG TGTTCCTCCCATCTTTCTGGAACACTCAATGAACACTTACTAG		
Human SOCS3_v1	9	prey97183	438	CAACAATGGAGTTTGTAAAGACCTAGTTGGGGAATTCATTTGTGAGTGCCCATC AGGTTACACAGGTCAGCGGTGTGAAGAAAATATAAATGAGTGTAGCTCCAGTCC TTGTTTAAATAAAGGAATCTGTGTTGATGGTGTGGCTGGCTATCGTTGCACATG TGTGAAAGGATTTGTAGGCCTGCATTGTGAAACAGAAGTCAATGAATGCCAGTC AAACCCATGCTTAAATAATGCAGTCTGTGAAGACCAGGTTGGGGGATTCTTGTG CAAATGCCCACCTGGATTTTTGGGTACCCGATGTGGAAAGAACGTCGATGAGTG TCTCAGTCAGCCATGCAAAAATGGAGCTACCTGTAAAGACGGTGCCAATAGCTT CAGATGCCTGTGTGCAGCTGGCTTCACAGGATCACACTGTGAATTGAACATCAA TGAATGTCAGTCTAATCCATGTAGAAATCAGGCCACCTGTGTGGATGAATTAAA TTCATACAGTTGTAAATGTCAGCCAGGATTTTCAGGCAAAAGGTGTGAAACAGA ACAGTCTACAGGCTTTAACCTGGATTTTGAAGTTTCTGGCATCTATGGATATGT CATGCTAGATGGCATGCTCCCATCTCTCCATGCTCTAACCTGTACCTTCTGGAT GAAATCCTCTGACGACATGAACTATGGAACACCAATCTCCTATGCAGTTGATAA CGGC	1176	NNGVCKDLVGEFICECPSGYTGQ RCEENINECSSSPCLNKGICVDG VAGYRCTCVKGFVGLHCETEVNE CQSNPCLNNAVCEDQVGGFLCKC PPGFLGTRCGKNVDECLSQPCKN GATCKDGANSFRCLCAAGFTGSH CELNINECQSNPCRNQATCVDEL NSYSCKCQPGFSGKRCETEQSTG FNLDFEVSGIYGYVMLDGMLPSL HALTCTFWMKSSDDMNYGTPISY AVDNG
Human SOCS3_v1	9	prey12105	439	CTATCCTGTACCAGAGGCATGCCTATCAAATAAACGCCATCGCCCCATTGGAAT TGGGGTACAAGGTCTGGCAGATGCTTTTATCCTGATGAGATACCCTTTTGAGAG TGCAGAAGCCCAGTTACTGAATAAGCAGATCTTTGAAACTATTTATTATGGTGC TCTGGAAGCCAGCTGTGACCTTGCCAAGGAGCAGGGCCCATACGAAACCTATGA GGGCTCTCCAGTTAGCAAAGGAATTCTTCAGTATGATATGTGGAATGTTACTCC TACAGACCTATGGGACTGGAAGGTTCTCAAGGAGAAGATTGCAAAGTATGGTAT AAGAAACAGTTTACTTATTGCCCCGATGCCTACAGCTTCCACTGCTCAGATCCT GGGGAATAATGAGTCCATTGAACCTTACACCAGCAACATCTATACTCGCAGAGT CTTGTCAGGAGAATTTCAGATTGTAAATCCTCACTTATTGAAAGATCTTACCGA GCGGGGCCTATGGCATGAAGAGATGAAAAACCAGATTATTGCATGCAATGGCTC TATTCAGAGCATACCAGAAATTCCTGATGACCTGAAGCAACTTTATAAAACTGT GTGGGAAATCTCTCAGAAAACTGTTCTCAAGATGGCAGCTGAGAGAGGTGCTTT CATTGATCAAAGCCAATCTTTGAACATCCACATTGCTGAGCCTAACTATGGCAA ACTCACTAGTATGCACTTCTACGGCTGGAAGCAGGGTTTGAAGACTGGGATGTA TTATTTAAGGACGAGACCAGCAGCTAATCCAATCCAGTTCACTCTAAATAAGGA GAAGCTAAAAGATAAAGAAAAGGTATCAAAAGAGGAAGAAGAGAAGGAGAGGAA CACAGCAGCCATGGTGTGCTCTTTGGAGAATAGAGATGAATGTCTGATGTGTGG ATCCTGA	1177	YPVPEACLSNKRHRPIGIGVQGL ADAFILMRYPFESAEAQLLNKQI FETIYYGALEASCDLAKEQGPYE TYEGSPVSKGILQYDMWNVTPTD LWDWKVLKEKIAKYGIRNSLLIA PMPTASTAQILGNNESIEPYTSN IYTRRVLSGEFQIVNPHLLKDLT ERGLWHEEMKNQIIACNGSIQSI PEIPDDLKQLYKTVWEISQKTVL KMAAERGAFIDQSQSLNIHIAEP NYGKLTSMHFYGWKQGLKTGMYY LRTRPAANPIQFTLNKEKLKDKE KVSKEEEEKERNTAAMVCSLENR DECLMCGS*
Human SOCS3_v1	9	prey97189	440	CCGGGATGTGGCTTCTGCAGCTCCAGAAAAAGCAGAGAACCCTGCTGGCCATGG CTCCAAGGAGGTGAAAGGCAAAACTCACACTTACTATCAGGTGCTGATTGATGC TCGTGACTGCCCACATATATCTCAGAGATCTCAGACAGAAGCTGTGACCTTCTT GGCTAACCATGATGACAGTCGGGCCCTCTATGCCATCCCAGGCTTGGACTATGT	1178	RDVASAAPEKAENPAGHGSKEVK GKTHTYYQVLIDARDCPHISQRS QTEAVTFLANHDDSRALYAIPGL DYVSHEDILPYTSTDQVPIQHEL

				CAGCCATGAAGACATCCTCCCCTACACCTCCACTGATCAGGTTCCCATCCAACA TGAACTCTTTGAAAGATTTCTTCTGTATGACCAGACAAAAGCACCTCCTTTTGT GGCTCGGGAGACGCTAAGGGCCTGGCAAGAGAAGAATCACCCCTGGCTGGAGCT CTCCGATGTTCATCGGGAAACAACTGAGAACATACGTGTCACTGTCATCCCCTT CTACATGGGCATGAGGGAAGCCCAGAATTCCCACGTGTACTGGTGGCGCTACTG TATCCGTTTGGAGAACCTTGACAGTGATGTGGTACAGCTCCGGGAGCGGCACTG GAGGATATTCAGTCTCTCTGGCACCTTGGAGACAGTGCGAGGCCGAGGGGTAGT GGGCAGGGAACCAGTGTTATCCAAGGAGCAGCCTGCGTTCCAGTATAGCAGCCA CGTCTCACTGCAGGCTTCCAGTGGGCACATGTGGGGCACGTTCCGCTTTGAAAG ACCTGATGGCTCCCACTTTGATGTTCGGATTCCTCCCTTCTCCCTGGAAAGCAA TAAAGATGAGAAGACACCACCCTCAGGCCTTCACTGGTAG		FERFLLYDQTKAPPFVARETLRA WQEKNHPWLELSDVHRETTENIR VTVIPFYMGMREAQNSHVYWWRY CIRLENLDSDVVQLRERHWRIFS LSGTLETVRGRGVVGREPVLSKE QPAFQYSSHVSLQASSGHMWGTF RFERPDGSHFDVRIPPFSLESNK DEKTPPSGLHW*
Human SOCS3_v1	9	prey15012	441	CAACCTGGCTGAGATGATTCAGAAAGGTGAGCAGCTATTCCTGGAGCCAGAGCT GGTCATCCCCCACCGCCAGCACCGACTCTTCACGGCCCCCACATTCACTGGGAG CTTCCTGTCACCCTGGCCACCAGCGGTCACTGATGCCTCCTTCAAGGTGAAGAG CCACGTCTACAGCCTGGAGGGCCAGGACTGCAAGTACACCCCGATGTTTGGGCC CGAGGCCCGCACCCTGGTCCTGCGCCTCGCTCAGCTCATCACACAGGCCAAACA CACAGCCAAGTCCATCTCCGACCAGTGTGCGGAGAGCCCGGCTGGCCACTCCTT CCTCTCATGGCTGGGCTTTAGCTCCATGGACACCAATGGCTCCTACACAGCCAA CGACCTGGACGAGATGGGGCAAGACAGTGTCCGGAAGACAGATGAATACCTGGA GAAGGCCCTGGAGTACCTGCGCCAGATATTCCGGCTCAGCGAAGCGCAGCTCAG GCAGTTCACACTCGCCTTGGGCACCACCCAGGATGAGAATGGAAAAAAGCAACT CCCCGACTGCATCGTGGGTGAGGACGGACTCATCCTTACGCCCCTGGGGCGGTA CCAGATCATCAATGGGCTGCGAAGGTTTGAAATTGAGTACCAGGGGGACCCGGA GCTGCAGCCCATCCGGAGCTATGAGATCGCCAGCTTGGTCCGCACACTCTTTAG GCTGTCGTCTGCCATCAACCACAGATTTGCAGGACAGATGGCGGCTCTGTGTTC CCGGGATGACTTCCTCGGCAGCTTCTGTCGCTACCACCTCACAGAACCTGGGCT GGCCAGCAGGCACCTGCTGAGCCCTGTGGGGCGGAGGCAGGTGGCCGGCCACAC CCGCGGCCCCAGGCTCAGCCTGCGCTTCCTGGGCAGTTACCGGACGCTGGTCTC GCTGCTGCTGGCCTTCTTCGTGGCCTCTCTGTTCTGCGTCGGGCCCCTCCCATG CACGCTGCTGCTCACCCTGGGCTATGTCCTCTACGCCTCTGCCATGACACTGCT GACCGAGCGGGGGAAGCTGCACCAGCCCTGA	1179	NLAEMIQKGEQLFLEPELVIPHR QHRLFTAPTFTGSFLSPWPPAVT DASFKVKSHVYSLEGQDCKYTPM FGPEARTLVLRLAQLITQAKHTA KSISDQCAESPAGHSFLSWLGFS SMDTNGSYTANDLDEMGQDSVRK TDEYLEKALEYLRQIFRLSEAQL RQFTLALGTTQDENGKKQLPDCI VGEDGLILTPLGRYQIINGLRRF EIEYQGDPELQPIRSYEIASLVR TLFRLSSAINHRFAGQMAALCSR DDFLGSFCRYHLTEPGLASRHLL SPVGRRQVAGHTRGPRLSLRFLG SYRTLVSLLLAFFVASLFCVGPL PCTLLLTLGYVLYASAMTLLTER GKLHQP*
Human SOCS3_v1	9	prey3518	442	ATGGAGCCGCCGAATCTCTATCCGGTGAAGCTCTACGTGTACGACCTGTCCAAA GGCCTGGCCCGGCGGCTCAGCCCCATCATGCTGGGGAAACAACTGGAAGGCATC TGGCACACATCCATAGTTGTGCACAAGGATGAGTTCTTCTTCGGCAGTGGTGGT ATCTCCAGCTGCCCCCCGGGAGGGACATTGCTTGGGCCTCCAGACTCTGTGGTT GATGTGGGGAGTACAGAAGTCACAGAAGAAATCTTTCTGGAGTACCTCTCCTCC CTGGGGGAGTCCCTGTTCCGAGGTGAGGCCTACAACCTCTTTGAACACAATTGT AACACCTTCAGCAACGAAGTGGCACAGTTCCTGACTGGGCGGAAGATTCCTTCT TACATCACAGACC	1180	MEPPNLYPVKLYVYDLSKGLARR LSPIMLGKQLEGIWHTSIVVHKD EFFFGSGGISSCPPGGTLLGPPD SVVDVGSTEVTEEIFLEYLSSLG ESLFRGEAYNLFEHNCNTFSNEV AQFLTGRKIPSYITD

Human SOCS3_v1	9	prey97324	443	GGAGAAGATTTCACGGGAAGTCAAATCAATTACGATTATCGGTGGGGGCTTCCT TGGTAGCGAACTGGCCTGTGCTCTTGGCAGAAAGGCTCGAGCCTTGGGCACAGA AGTGATTCAACTCTTCCCCGAGAAAGGAAATATGGGAAAGATCCTCCCCGAATA CCTCAGCAACTGGACCATGGAAAAAGTCAGACGAGAGGGGGTTAAGGTGATGCC CAATGCTATTGTGCAATCCGTTGGAGTCAGCAGTGGCAAGTTACTTATCAAGCT GAAAGACGGCAGGAAGGTAGAAACTGACCACATAGTGGCAGCTGTGGGCCTGGA GCCCAATGTTGAGTTGGCCAAGACTGGTGGCCTGGAAATAGACTCAGATTTTGG TGGCTTCCGGGTAAATGCAGAGCTACAAGCACGCTCTAACATCTGGGTGGCAGG AGATGCTGCATGCTTCTACGATATAAAGTTGGGAAGGAGGCGGGTAGAGCACCA TGATCACGCTGTTGTGAGTGGAAGATTGGCTGGAGAAAATATGACTGGAGCTGC TAAGCCGTACTGGCATCAGTCAATGTTCTGGAGTGATTTGGGCCCCGATGTTGG CTATGAAGCTATTGGTCTTGTGGACAGTAGTTTGCCCACAGTTGGTGTTTTTGC AAAAGCAACTGCACAAGACAACCCCAAATCTGCCACAGAGCAGTCAGGAACTGG TATCCGATCAGAGAGTGAGACAGAGTCCGAGGCCTCAGAAATTACTATTCCTCC CAGCACCCCGGCAGTTCCACAGGCTCCCGTCCAGGGGGAGGACTACGGCAAAGG TGTCATCTTCTACCTCAGGGACAAAGTGGTCGTGGGGATTGTGCTATGGAACAT CTTTAACCGAATGCCAATAGCAAGGAAGATCATTAAGGACGGTGAGCAGCATGA AGATCTCAATGAAGTAGCCAAACTATTCAACATTCATGAAGACTGA	1181	EKISREVKSITIIGGGFLGSELA CALGRKARALGTEVIQLFPEKGN MGKILPEYLSNWTMEKVRREGVK VMPNAIVQSVGVSSGKLLIKLKD GRKVETDHIVAAVGLEPNVELAK TGGLEIDSDFGGFRVNAELQARS NIWVAGDAACFYDIKLGRRRVEH HDHAVVSGRLAGENMTGAAKPYW HQSMFWSDLGPDVGYEAIGLVDS SLPTVGVFAKATAQDNPKSATEQ SGTGIRSESETESEASEITIPPS TPAVPQAPVQGEDYGKGVIFYLR DKVVVGIVLWNIFNRMPIARKII KDGEQHEDLNEVAKLFNIHED*
Human SOCS3_v1	9	prey94727	444	CTATTTTGCTGCCATGTTTACTAATGATGTCAGAGAGGCAAGACAAGAAGAAAT AAAAATGGAAGGTGTAGAACCAAATTCGTTGTGGTCCTTGATCCAGTATGCTTA TACAGGCCGCCTTGAATTAAAAGAAGATAATATTGAGTGCCTGTTATCTACAGC TTGCCTTCTTCAGCTTTCACAGGTTGTAGAAGCATGCTGTAAGTTTTTAATGAA ACAGCTTCATCCATCCAACTGTCTTGGAATTCGTTCTTTTGCTGATGCCCAAGG TTGTACAGATTTGCATAAAGTGGCTCACAATTATACTATGGAGCATTTCATGGA AGTAATCAGAAACCAGGAATTTGTATTATTACCAGCCAGCGAAATTGCAAAGCT CTTGGCTAGTGATGACATGAACATTCCTAATGAGGAGACAATATTGAATGCACT TCTTACTTGGGTCCGTCATGATTTGGAACAGAGACGGAAAGATCTAAGTAAACT TTTGGCTTATATTAGGCTACCTCTTCTTGCACCACAGTTCCTGGCAGACATGGA AAATAATGTACTTTTTCGGGATGATATAGAATGTCAGAAACTCATTATGGAAGC AATGAAGTACCATTTATTACCAGAGAGACGACCCATGTTACAAAGTCCTCGGAC AAAACCTAGGAAGTCAACTGTTGGTACATTATTTGCAGTTGGGGGAATGGATTC AACAAAAGGAGCAACAAGCATTGAAAAGTATGATCTCCGTACAAATATGTGGAC TCCAGTAGCAAATATGAATGGGAGGAGGCTACAGTTCGGTGTTGCAGTGCTAGA TGACAAACTGTATGTGGTTGGAGGAAGAGATGGACTGAAGACTTTGAATACTGT AGAGTGCTACAACCCCAAAACAAAAACTTGGAGTGTGATGCCACCTATGTCCAC ACATAGACATGGCCTTGGTGTGGCTGTACTGGAAGGTCCCATGTATGCCGTAGG AGGACATGATGGCTGGAGCTATCTGAACACAGTGGAAAGATGGGACCCTCAGGC TCGCCAGTGGAATTTTGTTGCCACTATGTCTACCCCTAGGAGTACAGTAGGTGT GGCAGTACTAAGTGGAAAACTTTATGCAGTTGGTGGTCGTGATGGAAGTTCTTG	1182	YFAAMFTNDVREARQEEIKMEGV EPNSLWSLIQYAYTGRLELKEDN IECLLSTACLLQLSQVVEACCKF LMKQLHPSNCLGIRSFADAQGCT DLHKVAHNYTMEHFMEVIRNQEF VLLPASEIAKLLASDDMNIPNEE TILNALLTWVRHDLEQRRKDLSK LLAYIRLPLLAPQFLADMENNVL FRDDIECQKLIMEAMKYHLLPER RPMLQSPRTKPRKSTVGTLFAVG GMDSTKGATSIEKYDLRTNMWTP VANMNGRRLQFGVAVLDDKLYVV GGRDGLKTLNTVECYNPKTKTWS VMPPMSTHRHGLGVAVLEGPMYA VGGHDGWSYLNTVERWDPQARQW NFVATMSTPRSTVGVAVLSGKLY AVGGRDGSSCLKSVECFDPHTNK WTLCAQMSKRRGGVGVTTWNGLL YAIGGHDAPASNLTSRLSDCVER YDPKTDMWTAVASMSISRDAVGV CLLGDKLYAVGGYDGQAYLNTVE

				TCTCAAATCAGTAGAATGTTTTGATCCTCATACTAATAAGTGGACACTGTGTGC ACAGATGTCAAAAAGGAGAGGTGGCGTAGGAGTGACGACCTGGAATGGACTGCT GTATGCTATAGGGGGGCACGATGCTCCCGCATCCAACTTGACTTCCAGACTCTC AGACTGTGTGGAAAGATATGATCCCAAAACAGACATGTGGACTGCAGTAGCATC CATGAGCATCAGCAGAGATGCAGTGGGGGTCTGTTTACTTGGTGATAAGTTATA TGCTGTTGGGGGGTATGATGGACAGGCATACCTTAATACTGTGGAGGCTTATGA TCCCCAGACAAATGAGTGG		AYDPQTNEW
Human SOCS3_v1	9	prey2609	445	CGCCGGCTCCATCGCCACAGCTACACCGGATGGTGGATTGTGCTCATATCTGG AACAGGCTCCAACTGCAGGCTCATCAACCCTGATGGCTCCGAGAGTGGCTGCGG CGGCTGGGGCCATATGATGGGTGATGAGGGTTCAGCCTACTGGATCGCACACCA AGCAGTGAAAATAGTGTTTGACTCCATTGACAACCTAGAGGCGGCTCCTCATGA TATCGGCTACGTCAAACAGGCCATGTTCCACTATTTCCAGGTGCCAGATCGGCT AGGGATACTCACTCACCTGTATAGGGACTTTGATAAATGCAGGTTTGCTGGGTT TTGCCGGAAAATTGCAGAAGGTGCTCAGCAGGGAGACCCCCTTTCCCGCTATAT CTTCAGGAAGGCTGGGGAGATGCTGGGCAGACACATCGTAGCAGTGTTGCCCGA GATTGACCCGGTCTTGTTCCAGGGCAAGATTGGACTCCCCATCCTGTGCGTGGG CTCTGTGTGGAAGAGCTGGGAGCTGCTGAAGGAAGGTTTTCTTTTGGCGCTGAC CCAGGGCAGAGAGATCCAGGCTCAGAACTTCTTCTCCAGCTTCACCCTGATGAA GCTGAGGCACTCCTCCGCTCTGGGTGGGGCCAGCCTAGGGGCCAGGCACATCGG GCACCTCCTCCCCATGGACTATAGCGCCAATGCCATTGCCTTCTATTCCTA	1183	AGSIATATPDGGIVLISGTGSNC RLINPDGSESGCGGWGHMMGDEG SAYWIAHQAVKIVFDSIDNLEAA PHDIGYVKQAMFHYFQVPDRLGI LTHLYRDFDKCRFAGFCRKIAEG AQQGDPLSRYIFRKAGEMLGRHI VAVLPEIDPVLFQGKIGLPILCV GSVWKSWELLKEGFLLALTQGRE IQAQNFFSSFTLMKLRHSSALGG ASLGARHIGHLLPMDYSANAIAF YS
Human SOCS3_v1	9	prey18569	446	TGAATGCACTGAATGGGGCCAGATTTTCATCCTGGACTGCCTGTCTAATTACAA CCCTAAAGATGATCGGGAGGCTCAGAGCATCTGTGAGCGGGTAACTCCCCGGCT ATCCCATGCCAACTCAGCAGTGGTGCTTTCAGCGGTAAAAGTCCTAATGAAGTT TCTAGAATTGTTACCTAAGGATTCTGACTACTACAATATGCTGCTGAAGAAGTT AGCCCCTCCACTTGTCACTTTGCTGTCTGGGGAGCCAGAAGTGCAGTATGTCGC CCTGAGGAACATCAACTTAATTGTCCAGAAAAGGCCTGAAATCTTGAAGCAGGA AATCAAAGTCTTCTTTGTGAAGTACAATGATCCCATCTATGTTAAACTAGAGAA GTTGGACATCATGATTCGTTTGGCATCTCAAGCCAACATTGCTCAGGTTCTGGC AGAACTGAAAGAATATGCTACAGAGGTGGATGTTGACTTTGTTCGAAAAGCTGT GCGGGCCATTGGACGGTGTGCCATCAAGGTGGAGCAATCTGCAGAGCGCTGTGT AAGCACATTGCTTGATCTAATCCAGACCAAAGTGAATTATGTGGTCCAAGAAGC AATTGTTGTCATCAGGGACATCTTCCGCAAATACCCCAACAAGTATGAAAGTAT CATCGCCACTCTGTGTGAGAACTTAGACTCGCTGGATGAGCCAGATGCTCGAGC AGCTATGATTTGGATTGTGGGAGAATATGCTGAAAGAATTGACAATGCAGATGA GTTACTAGAAAGCTTCCTGGAGGGTTTTCACGATGAAAGCACC	1184	ECTEWGQIFILDCLSNYNPKDDR EAQSICERVTPRLSHANSAVVLS AVKVLMKFLELLPKDSDYYNMLL KKLAPPLVTLLSGEPEVQYVALR NINLIVQKRPEILKQEIKVFFVK YNDPIYVKLEKLDIMIRLASQAN IAQVLAELKEYATEVDVDFVRKA VRAIGRCAIKVEQSAERCVSTLL DLIQTKVNYVVQEAIVVIRDIFR KYPNKYESIIATLCENLDSLDEP DARAAMIWIVGEYAERIDNADEL LESFLEGFHDEST
Human SOCS3_v1	9	prey48568	447	CGAGGATGAGGAGGAGCCCAAGGAGGTCAGCAGCAGCACAGAGCTGCACTCCAA TGAGAAGTGGTTCCATGGGAAGCTAGGGGCAGGGCGTGACGGGCGTCACATCGC TGAGCGCCTGCTTACTGAGTACTGCATCGAGACCGGAGCCCCTGACGGCTCCTT CCTCGTGCGAGAGAGTGAGACCTTCGTGGGCGACTACACGCTCTCTTTCTGGCG	1185	EDEEEPKEVSSSTELHSNEKWFH GKLGAGRDGRHIAERLLTEYCIE TGAPDGSFLVRESETFVGDYTLS FWRNGKVQHCRIHSRQDAGTPKF

				GAACGGGAAAGTCCAGCACTGCCGTATCCACTCCCGGCAAGATGCTGGGACCCC CAAGTTCTTCTTGACAGACAACCTCGTCTTTGACTCCCTCTATGACCTCATCAC GCACTACCAGCAGGTGCCCCTGCGCTGTAATGAGTTTGAGATGCGACTTTCAGA GCCTGTCCCACAGACCAACGCCCACGAGAGCAAAGAGTGGTACCACGCGAGCCT GACCAGAGCACAGGCTGAGCACATGCTAATGCGCGTCCCTCGTGATGGGGCCTT CCTGGTGCGGAAGCGGAATGAACCCAACTCATATGCCATCTCTTTCCGGGCTGA GGGCAAGATCAAGCATTGCCGTGTCCAGCAAGAGGGCCAGACAGTGATGCTAGG GAACTCGGAGTTCGACAGCCTTGTTGACCTCATCAGCTACTATGAGAAACACCC GCTATACCGCAAGATGAAGCTGCGCTATCCCATCAACGAGGAGGCACTGGAGAA GATTGGCACAGCTGAGCCTGACTACGGGGCCCTGTATGAGGGACGCAACCCTGG CTTCTATGTAGAGGCAAACCCTATGCCAACTTTCAAGTGTGCAGTCAAAGCCCT CTTTGACTACAAGGCCCAGAGGGAGGACGAGCTGACCTTCATCAAGAGCGCCAT CATCCAGAATGTGGAGAAGCAAGAGGGAGGCTGGTGGCGAGGGGACTACGGAGG GAAGAAGCAGCTGTGGTTCCCATCAAACTACGTGGAAGAGATGGTCAACCCCGT GGCCCTGGAGCCGGAGAGGGAGCACTTGGACGAGAACAGCCCCCTAGGGGACTT GCTGCGGGGGGTCTTGGATGTGCCGGCTTGTCAGATTGCCATCCGTCCTGAGGG CAAGAACAACCGGCTCTTCGTCTTCTCCATCAGCATGGCGTCGGTGGCCCACTG GTCCCTGGATGTTGCTGCCGACTCACAGGAGGAGCTGCAGGACTGGGTGAAAAA GATCCGTGAAGTGGCCCAGACAGCAGACGCCAGGCTCACTGAAGGGAAGATAAT GGAACGGAGGAAGAAGATTGCCCTGGAGCTCTCTGAACTTGTCGTCTACTGCCG GCCTGTTCCCTTTGATGAAGAGAAGATTGGCACAGAACGTGCTTGCTACCGGGA CATGTCATCCTTCCCGGAAACCAAGGCTGAGAAATACGTGAACAAGGCCAAAGG CAAGAAGTTCCTTCAGTACAATCGACTGCAGCTCTCCCGCATCTACCCCAAGGG CCAGCGACTGGATTCCTCCAACTACGATCCTTTGCCCATGTGGATCTGTGGCAG TCAGCTTGTGGCCCTCAACTTCCAGACCCCTGACAAGCCTATGCAGATGAACCA GGCCCTCTTCATGACGGGCAGGCACTGTGGCTACGTGCTGCAGCCAAGCACCAT GCGGGATGAGGCCTTCGACCCCTTTGACAAGAGCAGCCTCCGCGGGCTGGAGCC ATGTGCCATCTCTATTGAGGTGCTGGGGGCCCGACATCTGCCAAAGAATGGCCG AGGCATTGTGTGTCCTTTTGTGGAGATTGAGGTGGCTGGAGCTGAGTATGACAG CACCAAGCAGAAGACAGAGTTTGTGGTGGACAATGGACTCAACCCTGTATGGCC AGCCAAGCCCTTCCACTTCCAGATCAGTAACCCTGAATTTGCCTTTCTGCGCTT CGTGGTGTATGAGGAAGACATGTTTAGTGACCAGAATTTCCTGGCTCAGGCTAC TTTCCCAGTAAAAGGCCTGAAGACAGGATACAGAGCAGTGCCTTTGAAGAACAA CTACAGTGAGGACCTGGAGTTGGCCTCCCTGCTGATCAAGATTGACATTTTCCC TGCCAAGGAGAATGGTGACCTCAGTCCCTTCAGTGGTACGTCCCTGCGGGAGCG GGGCTCAGATGCCTCAGGCCAGCTGTTTCATGGCCGAGCCCGGGAAGGCTCCTT TGAATCCCGCTACCAGCAGCCGTTTGAGGACTTCCGCATCTCCCAGGAGCATCT CGCAGACCATTTTGACAGTCGAGAACGAAGGGCCCCAAGAAGGACTCGGGTCAA TGGAGACAACCGCCTCTAG		FLTDNLVFDSLYDLITHYQQVPL RCNEFEMRLSEPVPQTNAHESKE WYHASLTRAQAEHMLMRVPRDGA FLVRKRNEPNSYAISFRAEGKIK HCRVQQEGQTVMLGNSEFDSLVD LISYYEKHPLYRKMKLRYPINEE ALEKIGTAEPDYGALYEGRNPGF YVEANPMPTFKCAVKALFDYKAQ REDELTFIKSAIIQNVEKQEGGW WRGDYGGKKQLWFPSNYVEEMVN PVALEPEREHLDENSPLGDLLRG VLDVPACQIAIRPEGKNNRLFVF SISMASVAHWSLDVAADSQEELQ DWVKKIREVAQTADARLTEGKIM ERRKKIALELSELVVYCRPVPFD EEKIGTERACYRDMSSFPETKAE KYVNKAKGKKFLQYNRLQLSRIY PKGQRLDSSNYDPLPMWICGSQL VALNFQTPDKPMQMNQALFMTGR HCGYVLQPSTMRDEAFDPFDKSS LRGLEPCAISIEVLGARHLPKNG RGIVCPFVEIEVAGAEYDSTKQK TEFVVDNGLNPVWPAKPFHFQIS NPEFAFLRFVVYEEDMFSDQNFL AQATFPVKGLKTGYRAVPLKNNY SEDLELASLLIKIDIFPAKENGD LSPFSGTSLRERGSDASGQLFHG RAREGSFESRYQQPFEDFRISQE HLADHFDSRERRAPRRTRVNGDN RL*

Human SOCS3_v1	9	prey96859	448	GGTAAAGATGCCTGCGTGTGGCATGGTGACAGAAGCTCCAGCAGTCGGGAGTCG TCCACGCTCCCCAAGCAGTTATGACCTTGTCCTGCACGTTCCTCTCACTGGGGC TGAAGCCTGTCTGATGTCTGTGGAGGAAGAGACGGAGCTGCTCCTTAGAAGCTG CCACGAAGGCCGCTGCCCGCTCATGCTGACCGAATGTCCCGCGTGCAAAGGCCT GGTCCGCCTTGGTGAAAAGGAGCGCCACCTGGAGCACGAGTGCCCGGAGAGAAG CCTGAGCTGCCGGCATTGCCGGGCACCCTGCTGCGGAGCAGACGTGAAGGCGCA CCACGAGGTCTGCCCCAAGTTCCCCTTAACTTGTGACGGCTGCGGCAAGAAGAA GATCCCCCGGGAGAAGTTTCAGGACCAAGACAAGATTGAAGCCCTGAGTAGCAA GGTGCAGCAGCTGGAGAGGAGCATTGGCCTCAAGGACCTGGCGATGGCTGACTT GGAGCAGAAGGTCTTGGAGATGGAGGCATCCACCTACGATGGGGTCTTCATCTG GAAGATCTCAGACTTCGCCAGGAAGCGCCAGGAAGCTGTGGCTGGCCGCATACC CGCCATCTTCTCCCCAGCCTTCTACACCAGCAGGTACGGCTACAAGATGTGTCT GCGTATCTACCTGAACGGCGACGGCACCGGGCGAGGAACACACCTGTCCCTCTT CTTTGTGGTGATGAAGGGCCCGAATGACGCCCTGCTGCGGTGGCCCTTCAACCA GAAGGTGACCTTAATGCTGCTCGACCAGAATAACCGGGAGCACGTGATTGACGC CTTCAGGCCCGACGTGACTTCATCCTCTTTTCAGAGGCCAGTCAACGACATGAA CATCGCAAGCGGCTGCCCCCTCTTCTGCCCCGTCTCCAAGATGGAGGCAAAGAA TTCCTACGTGCGGGACGATGCCATCTTCATCAAGGCCATTGTGGACCTGACAGG GCTCTAA	1186	VKMPACGMVTEAPAVGSRPRSPS SYDLVLHVPLTGAEACLMSVEEE TELLLRSCHEGRCPLMLTECPAC KGLVRLGEKERHLEHECPERSLS CRHCRAPCCGADVKAHHEVCPKF PLTCDGCGKKKIPREKFQDQDKI EALSSKVQQLERSIGLKDLAMAD LEQKVLEMEASTYDGVFIWKISD FARKRQEAVAGRIPAIFSPAFYT SRYGYKMCLRIYLNGDGTGRGTH LSLFFVVMKGPNDALLRWPFNQK VTLMLLDQNNREHVIDAFRPDVT SSSFQRPVNDMNIASGCPLFCPV SKMEAKNSYVRDDAIFIKAIVDL TGL*
Human SOCS3_v1	9	prey97227	449	TCCGCATCAGTTTTCACAGCAACAGCTACAGTTTCCACAGCAACAGTTGCATCC TCCACAGCAGCTGCATCGCCCTCAGCAGCAGCTCCAGCCCTTTCAGCAGCAGCA TGCCCTGCAGCAGCAGTTCCATCAGCTGCAGCAGCACCAGCTCCAGCAGCAGCA GCTTGCCCAGCTCCAGCAGCAGCACAGCCTGCTCCAGCAGCAGCAGCAACAGCA GATTCAGCAGCAGCAGCTCCAGCGCATGCACCAGCAGCAGCAGCAGCAGCAGAT GCAAAGTCAGACAGCGCCACACTTGAGTCAGACGTCACAGGCGCTGCAGCATCA GGTTCCACCTCAGCAGCCCCCGCAGCAGCAGCAGCAACAGCAGCCACCACCATC GCCTCAGCAGCATCAGCTTTTTGGACATGATCCAGCAGTGGAGATTCCAGAAGA AGGCTTCTTATTGGGATGTGTGTTTGCAATTGCGGATTATCCAGAGCAGATGTC TGATAAGCAACTGCTGGCCACCTGGAAAAGGATAATCCAGGCACATGGCGGCAC TGTTGACCCCACCTTCACGAGTCGATGCACGCACCTTCTCTGTGAGAGTCAAGT CAGCAGCGCGTATGCACAGGC	1187	PHQFSQQQLQFPQQQLHPPQQLH RPQQQLQPFQQQHALQQQFHQLQ QHQLQQQQLAQLQQQHSLLQQQQ QQQIQQQQLQRMHQQQQQQQMQS QTAPHLSQTSQALQHQVPPQQPP QQQQQQQPPPSPQQHQLFGHDPA VEIPEEGFLLGCVFAIADYPEQM SDKQLLATWKRIIQAHGGTVDPT FTSRCTHLLCESQVSSAYAQ
Human SOCS3_v1	9	prey700	450	ATGGGAATTGGTCTTTCTGCTCAAGGTGTGAACATGAATAGACTACCAGGTTGG GATAAGCATTCATATGGTTACCATGGGGATGATGGACATTCGTTTTGTTCTTCT GGAACTGGACAACCTTATGGACCAACTTTCACTACTGGTGATGTCATTGGCTGT TGTGTTAATCTTATCAACAATACCTGCTTTTACACCAAGAATGGACATAGTTTA GGTATTGCTTTCACTGACCTACCGCCAAATTTGTATCCTACTGTGGGGCTTCAA ACACCAGGAGAAGTGGTCGATGCCAATTTTGGGCAACATCCTTTCGTGTTTGAT ATAGAAGACTATATGCGGGAGTGGAGAACCAAAATCCAGGCACAGATAGATCGA TTTCCTATCGGAGATCGAGAAGGAGAATGGCAGACCATGATACAAAAAATGGTT	1188	MGIGLSAQGVNMNRLPGWDKHSY GYHGDDGHSFCSSGTGQPYGPTF TTGDVIGCCVNLINNTCFYTKNG HSLGIAFTDLPPNLYPTVGLQTP GEVVDANFGQHPFVFDIEDYMRE WRTKIQAQIDRFPIGDREGEWQT MIQKMVSSYLVHHGYCATAEAFA RSTDQT

				TCATCTTATTTAGTCCACCATGGGTACTGTGCCACAGCAGAGGCCTTTGCCAGATCTACAGACCAGACC		
Human SOCS3_v1	9	prey97231	451	GTNGGNCNACATGCTCACTGCATTNCCCATNANNANCTTGGTATNGCTCNGGATGGTCNGGNCCTGGCTGAATNTGATCATCCACAACGTAAGNNGTTGATGAAGTGGGCCAACATGTNACAGCCNCACGGCAAATTNNNTNGCCCACGATGNGANGGATNACTCCANCCNNAANTCCNTACAACCCTTNCTCTTTNNNANTCTTCCCAATGGAGCTNAGCGCACCACTNTACTNNGNCTCNCGTCNCACNNACTGGACCATGCANGTGCATTGANATGACNTGNANGGGNGTGGGNCAACGTGGGGGACACACACTGGGTGGTGGTGTGGGGGGGTACGGGTGGTTGGCGGCTTG	1189	VGXHAHCIXHXXLGXAXDGXXLAEXDHPQRKXLMKWANMXQPHGKXXXPRXXGXLXPXXXTTLXLXXSSQWSXAHHXTXXXVXXTGPCXCIXMTXXGVGQRGGHTLGGGVGGYGWLAA
Human SOCS3_v1	9	prey6586	452	TGACGAGATCCCCTTCTCCCCGTACCGCGTGCGTGCCGTGCCCACCGGGGACGCCAGCAAGTGCACTGTCACAGTGTCAATCGGAGGTCACGGGCTAGGTGCTGGCATCGGCCCCACCATTCAGATTGGGGAGGAGACGGTGATCACTGTGGACACTAAGGCGGCAGGCAAAGGCAAAGTGACGTGCACCGTGTGCACGCCTGATGGCTCAGAGGTGGATGTGGACGTGGTGGAGAATGAGGACGGCACTTTCGACATCTTCTACACGGCCC	1190	DEIPFSPYRVRAVPTGDASKCTVTVSIGGHGLGAGIGPTIQIGEETVITVDTKAAGKGKVTCTVCTPDGSEVDVDVVENEDGTFDIFYTA
Human SOCS3_v1	9	hgx150	453	CCCTAACAATCCTGCTGAATACTGTTCTACTATCCCTCCCTTGCAGCAAGCTCAGGCCTCAGGAGCTCTGAGCTCTCCACCTCCCACTGTGATGGTACCTGTGGGAGTTTTAAAGCACCCTGGAGCAGAAGTGGCTCAGCCCAGAGAGCAGAGGCGAGTTTGGTTTGCTGATGGGATCTTGCCCAATGGAGAAGTTGCTGATGCAGCCAAATTAACAATGAATGGAACTTCCTCTGCAGGAACCCTGGCTGTGTCACACGACCCAGTCAAGCCAGTAACTACCAGTCCTCTACCAGCAGAGACGGATATTTGTCTATTCTCTGGGAGTATAACTCAGGTTGGAAGTCCTGTTGGAAGTGCAATGAATCTTATTCCTGAAGATGGCCTTCCTCCCATTCTCATCTCCACTGGTGTAAAAGGAGACTATGCTGTGGAAGAGAAACCATCACAGATTTCAGTAATGCAGCAGTTGGAGGATGGTGGCCCTGACCCACTTGTATTTGTTTTAAATGCAAATTTGTTGTCAATGGTTAAAATTGTAAATTATGTGAACAGGAAGTGCTGGTGTTTCACAAC	1191	PNNPAEYCSTIPPLQQAQASGALSSPPPTVMVPVGVLKHPGAEVAQPREQRRVWFADGILPNGEVADAAKLTMNGTSSAGTLAVSHDPVKPVTTSPLPAETDICLFSGSITQVGSPVGSAMNLIPEDGLPPILISTGVKGDYAVEEKPSQISVMQQLEDGGPDPLVFVLNANLLSMVKIVNYVNRKCWCFT
Human SOCS3_v1	9	prey78905	454	TTCTTTCATGACCTGTACCCAGAATGTAGCTCCAGATATGTTCAGAACCATACCACCAGAGGCCAACATTCCAATTCCCGTGAAGTCTGATATGGTTATGATGCATGAACATCATAAAGAAACAGAATATAAAGATAAGATTCCTTTACTACAGCAGCCAAAACGAGAAGAAGAAGAAGTGTTAGACCAGGGTGATTTCTATTCACTACTTTCCAAGCTGCTAGGAGAAAGGGAAGATGTTGTTCATGTGCACAAATATAATCCTACAGAAAAGGCAGAATCAGAGTCAGACCTGGTAGCTGAGATTGCAAATGTAGTCCAAAAAAAGGATCTTGGTCGATCTGATGCCAGAGAGGGTGCAGAACATGAGAGGGGTAATGCTATTCTTGTCAGAGACAGAATTCACAAATTCCACAGACTAGTATCTACCTTGAGGCCACCAGAGAGCAGAGTTTTCTCATTACAGCAGCCCCCACCTGGTGAAGGCACCTGGGAACCAGAACACACAGGAGATTTCCACATGGAAGAGGCACTGGATTGGCCTGGAGTATACTTGTTACCAGGCCAGGTTTCTGGGGTGGCTCTAGACCCTAAGAATAACCTGGTGATTTTCCACAGAGGTGACCATGTCTGGGATGGAAACTCGTTTGACAGCAAGTTTGTTTACCAGCAAATAGGACTCGGACCAATTGAAGAAGACAC	1192	SFMTCTQNVAPDMFRTIPPEANIPIPVKSDMVMMHEHHKETEYKDKIPLLQQPKREEEEVLDQGDFYSLLSKLLGEREDVVHVHKYNPTEKAESESDLVAEIANVVQKKDLGRSDAREGAEHERGNAILVRDRIHKFHRLVSTLRPPESRVFSLQQPPPGEGTWEPEHTGDFHMEEALDWPGVYLLPGQVSGVALDPKNNLVIFHRGDHVWDGNSFDSKFVYQQIGLGPIEEDTILVIDPNNAAVLQSSEKNLFYLPHGLSIDKDGNYWVTDVALHQVFKLDPNNKEGPVLILGRSMQP

				TATTCTTGTCATAGATCCAAATAATGCTGCAGTACTCCAGTCCAGTGAAAAAAA TCTGTTTTACTTGCCACATGGCTTGAGTATAGATAAAGATGGGAATTATTGGGT CACAGACGTGGCTCTCCATCAGGTGTTCAAACTGGATCCAAACAATAAAGAAGG CCCTGTATTAATCCTGGGAAGGAGCATGCAACCAGGCAGTGACCAGAATCACTT CTGTCAACCCACTGATGTGGCTGTGGATCCAGGCACTGGAGCCATTTATGTATC AGATGGTTACTGCAACAGCAGGATTGTGCAGTTTTCACCAAGTGGAAAGTTCAT CACACAGTGGGGAGAAGAGTCTTCAGGGAGCAGTCCTCTGCCAGGCCAGTTCAC TGTTCCTCACAGCTTGGCTCTTGTGCCTCTTTTGGGCCAATTATGTGTGGCAGA CCGGGAAAATGGTCGGATCCAGTGTTTTAAAACTGACACCAAAGAATTTGTGAG AGAG		GSDQNHFCQPTDVAVDPGTGAIY VSDGYCNSRIVQFSPSGKFITQW GEESSGSSPLPGQFTVPHSLALV PLLGQLCVADRENGRIQCFKTDT KEFVRE
Human SOCS3_v1	9	prey4088	455	GAAGCAGGAGATTTTTCGTAAGTTGAACTCCTCTGGTGGAGGTGACTCTGATAT GGCAGCTGCTCAGCCAGGAACTGAGATCTTTAATCTGCCAGCAGTTACTACGTC AGGCTCAGTTAGCTCTAGAGGCCATTCTTTTGCTGATCCTGCCAGTAATCTTGG GCTGGAAGACATTATCAGGAAGGCTCTCATGGGAAGCTTTGATGACAAAGTTGA GGATCATGGAGTTGTCATGTCCCAGCCTATGGGAGTAGTGCCTGGTACTGCCAA CACCTCAGTTGTGACCAGTGGTGAGACACGAAGAGAGGAAGGGGACCCATCACC TCATTCAGGAGGAGTTTGCAAACCAAAGCTGATCAGCAAGTCAAACAGCAGGAA ATCTAAGTCTCCTATACCTGGGCAAGGCTACTTAGGAACGGAACGGCCCTCTTC AGTCTCCTCTGTACATTCAGAAGGGGATTACCATAGGCAGACGCCAGGGTGGGC CTGGGAAGACAGGCCCTCTTCAACAGGCTCAACTCAGTTTCCTTATAACCCTCT GACTATGCGGATGCTCAGCAGTACTCCACCAACACCGATTGCATGTGCTCCCTC TGCGGTGAACCAAGCAGCTCCTCACCAACAGAACAGGATCTGGGAGCGAG	1193	KQEIFRKLNSSGGGDSDMAAAQP GTEIFNLPAVTTSGSVSSRGHSF ADPASNLGLEDIIRKALMGSFDD KVEDHGVVMSQPMGVVPGTANTS VVTSGETRREEGDPSPHSGGVCK PKLISKSNSRKSKSPIPGQGYLG TERPSSVSSVHSEGDYHRQTPGW AWEDRPSSTGSTQFPYNPLTMRM LSSTPPTPIACAPSAVNQAAPHQ QNRIWER
Human SOCS3_v1	9	prey72406	456	TCACCGTGAAGATGGACCTGGAATCCCAGCGGATATTAAACTTTTTGATATATT TTCACAGCAGGTGGCTACAGTGATACAGTCTAGACAAGACATGCCTTCAGAGGA TGTTGTATCTTTACAAGTCTCTCTGATTAATCTTGCCATGAAATGTTACCCTGA TCGTGTGGACTATGTTGATAAAGTTCTAGAAACAACAGTGGAGATATTCAATAA GCTCAACCTTGAACATATTGCTACCAGTAGTGCAGTTTCAAAGGAACTCACCAG ACTTTTGAAAATACCAGTTGACACTTACAACAATATTTTAACAGTCTTGAAATT AAAACATTTTCACCCACTCTTTGAGTACTTTGACTACGAGTCCAGAAAGAGCAT GAGTTGTTATGTGCTTAGTAATGTTCTGGATTATAACACAGAAATTGTCTCTCA AGACCAGGTGGATTCCATAATGAATTTGGTATCCACGTTGATTCAAGATCAGCC AGATCAACCTGTAGAAGACCCTGATCCAGAAGATTTTGCTGATGAGCAGAGCCT TGTGGGCCGCTTCATTCATCTGCTGCGCTCTGAGGACCCTGACCAGCAGTACTT GATTTTGAACACAGCACGAAAACATTTTGGAGCTGGTGGAAATCAGCGGATTCG CTTCACACTGCCACCTTTGGTATTTGCAGCTTACCAGCTGGCTTTTCGATATAA AGAGAATTCTAAAGTGGATGACAAATGGGAAAAGAAATGCCAGAAGATTTTTTC ATTTGCCCACCAGACTATCAGTGCTTTGATCAAAGCAGAGCTGGCAGAATTGCC CTTAAGACTTTTTCTTCAAGGAGCACTAGCTGCTGGGGAAATTGGTTTTGAAAA TCATGAGACAGTCGCATATGAATTCATGTCCCAGGCATTTTCTCTGTATGAAGA	1194	HREDGPGIPADIKLFDIFSQQVA TVIQSRQDMPSEDVVSLQVSLIN LAMKCYPDRVDYVDKVLETTVEI FNKLNLEHIATSSAVSKELTRLL KIPVDTYNNILTVLKLKHFHPLF EYFDYESRKSMSCYVLSNVLDYN TEIVSQDQVDSIMNLVSTLIQDQ PDQPVEDPDPEDFADEQSLVGRF IHLLRSEDPDQQYLILNTARKHF GAGGNQRIRFTLPPLVFAAYQLA FRYKENSKVDDKWEKKCQKIFSF AHQTISALIKAELAELPLRLFLQ GALAAGEIGFENHETVAYEFMSQ AFSLYEDEISDSKAQLAAITLII GTFERMKCFSEENHEPLRTQCAL AASKLLKKPDQGRAVSTCAHLFW SGRNTDKNGEELHGGKRVMECLK

				TGAAATCAGCGATTCCAAAGCACAGCTAGCTGCCATCACCTTGATCATTGGCACTTTTGAAAGGATGAAGTGCTTCAGTGAAGAGAATCATGAACCTCTGAGGACTCAGTGTGCCCTTGCTGCATCCAAACTTCTAAAGAAACCTGATCAGGGCCGAGCTGTGAGCACCTGTGCACATCTCTTCTGGTCTGGCAGAAACACGGACAAAAATGGGGAGGAGCTTCACGGAGGCAAGAGGGTAATGGAGTGCCTAAAAAAAGCTCTAAAAATAGCAAATCAGTGCATGGACCCCTCTCTACAAGTGCAGCTTTTTATAGAAATTCTGAACAGATATATCTATTTTTATGAAAAGGAAAATGATGCGGTAACAATTCAGGTTTTAAACCAGCTTATCCAAAAGATTCGAGAAGACCTCCCGAATCTTGAATCCAGTGAAGAAACAGAGCAGATTAACAAACATTTTCATAACACACTGGAGCATTTGCGCTTGCGGCGGGAATCACCAGAATCCGAGGGGCCAATTTATGAAGGTCTCATCCTTTAA		KALKIANQCMDPSLQVQLFIEILNRYIYFYEKENDAVTIQVLNQLIQKIREDLPNLESSEETEQINKHFHNTLEHLRLRRESPESEGPIYEGLIL*
Human SOCS3_v1	9	prey21223	457	GGTAATTGAAACTTTATCAGTGGGAGCAACCATGCTGTTACCTCCATTACGAGAACGGATGGAATTACTTCATTCTCTTTTACCTCAAGGACCTGATAGATGGGAAAGCTTATCTAAAGGACAGAGAATGCAACTGGATATCATCCTGACAAGTTTGCAAGATCATACCCACGTAGCCTCCCTACTTGGCTATAGTTCACCCTCTGATGCTGCTGACCTATCTTCTGTGTGTACTGGCTACGGAAATCTGTCAGATCAACCTTACGGCACTCAGAGCTGCCATCCAGATACCCACCTGGCTGAAATTTTGATGAAGACCCTCTTAAGAAATTTAGGATTTTATACAGATCAAGCATTTGGAGAGCTAGAAAAGAATAGTGATAAATTTCTACTTGGAACATCATCATCAGAAAACAGTCAGCCTGCTCATCTTCATGAACTGCTATGTTCACTACAGAAACAGCTGCTGGCATTTTGCCATATCAATAACATTAGTGAGAACTCAAGCAGTGTGGCATTGCTTCATAAACATCTTCAGCTTTTGTTGCCTCATGCCACAGATATTTATTCACGTTCTGCAAATTTGCTCAAAGAAAGTCCTTGGAATGGCAGTGTTGGAGAAAAATTAAGAGATGTGATATACGTCTCAGCTGCTGGCAGTATGCTCTGCCAGATTGTTAACTCCCTGCTGTTACTCCCTGTGTCAGTGGCTCGGCCTTTATTGAGTTACCTCCTCGACTTGTTGCCACCTCTTGATTGCCTTAATAGACTCCTGCCAGCTGCTGATCTTTTAGAAGACCAGGAGTTACAGTGGCCTCTTCATGGAGGGCCAGAACTAATTGATCCTGCTGGTCTGCCATTACCTCAGCCAGCTCAGTCCTGGGTATGGCTTGTGGATCTAGAAAGAACAATTGCTCTCCTTATTGGGCGGTGTCTTGGTGGCATGCTTCAGGGCTCCCCTGTGTCTCCAGAGGAACAGGACACTGCATATTGGATGAAAACGCCACTGTTCAGTGACGGTGTAGAAATGGACACTCCTCAATTGGATAAATGTATGAGTTGCCTGTTAGAAGTAGCACTTTCTGGAAATGAAGAAC	1195	VIETLSVGATMLLPPLRERMELLHSLLPQGPDRWESLSKGQRMQLDIILTSLQDHTHVASLLGYSSPSDAADLSSVCTGYGNLSDQPYGTQSCHPDTHLAEILMKTLLRNLGFYTDQAFGELEKNSDKFLLGTSSSENSQPAHLHELLCSLQKQLLAFCHINNISENSSSVALLHKHLQLLLPHATDIYSRSANLLKESPWNGSVGEKLRDVIYVSAAGSMLCQIVNSLLLLPVSVARPLLSYLLDLLPPLDCLNRLLPAADLLEDQELQWPLHGGPELIDPAGLPLPQPAQSWVWLVDLERTIALLIGRCLGGMLQGSPVSPEEQDTAYWMKTPLFSDGVEMDTPQLDKCMSCLLEVALSGNEE
Human SOCS3_v1	9	prey97253	458	NTGGATGANGTGGTACTAGGAGCTNCCTGCACCNCCCATGGANGANGAGGANGNANCTGAACANNCATNTTGTNTNNACAATTNAANANTAATNTACATTATCNNTGTTTTCACCTATGCTGGCTATTNTTNCTNTTGATGNTNTGATTTGNNAACTGATTGTTTTATCCCCAAAATNAATANNCATAATTTGNNTATGTTNTACAATATAATTGCTTCNTNNAATATACCCGCCTATGAAATGGAATGTTTAATANTGCNCATNTTGCTTTT	1196	XDXVVLGAXCTXHGXXGXX*TXXLXXQXXXNXHYXCFHLCWLXXLLMX*FXN*LFYPQNXXX*FXYVXQYNCFXXYTRL*NGMFNXAHXAF
Human	9	prey19444	459	AAAGGTGGCCCATGGCGCCCTCAGTGATGGTGCCATTGATGCTGTGGAGACACA	1197	KVAHGALSDGAIDAVETQKDLLG

SOCS3_v1				GAAGGACCTCCTGGGAGCCAGTGGGCTCATGCTGCTGCTTCCCCCCAAAATGAA GAGTGAGGACATGGCAGAGGAGGACGTGTACTGGCTGTCGGCCTTGCTGCAGCT CAAGCAGCTCCTGCAGGCTAAGCCCTTCCAGCCTGCGCTTCCTCTGGTGGTTCT TGTGCCTAGCCCAGGAGGGGACGCCGTTGAGAAGGAAGTAGAAGATGGTCTGAT GCTACAGGACTTGGTTTCAGCTAAGCTGATTTCAGATTACACTGTTACCGAGAT CCCTGATACCATTAATGATCTACAAGGTTCAACTAAGGTTTTGCAAGCAGTGCA GTGGCTGGTTTCCCACTGCCCCCATTCCCTTGACCTCTGCTGCCAGACTCTCAT TCAGTACGTCGAAGACGGGATTGGCCATGAGTTTAGTGGCCGCTTTTTCCATGA CAGAAGAGAGAGGCGTCTGGGCGGTCTTGCTTCTCAGGAGCCTGGCGCCATCAT TGAGCTGTTTAACAGTGTGCTGCAGTTCCTGGCTTCTGTGGTGTCCTCTGAACA GCTGTGTGACCTGTCCTGGCCTGTCACTGAGTTTGCTGAGGCAGGGGGCAGCCG GCTGCTTCCTCACCTGCACTGGAATGCCCCAGAGCACCTGGCCTGGCTGAAGCA GGCTGTGCTCGGGTTCCAGCTTCCGCAGATGGACCTTCCACCCCTGGGGGCCCC CTGGCTCCCCGTGTGCTCCATGGTTGTCCAGTACGCCTCCCAGATCCCCAGCTC ACGCCAGACACAGCCTGTCCTCCAGTCCCAGGTGGAGAACCTGCTCCACAGAAC CTACTGTAGGTGGAAGAGCAAGAGTCCCTCCCCAGTCCATGGGGCAGGCCCCTC GGTCATGGAGATCCCATGGGATGATCTTATCGCCTTGTGTATCAACCACAAGCT GAGAGACTGGACGCCCCCCGGCTTCCTGTTACATCAGAGGCGCTGAGTGAAGA TGGTCAGATATGTGTGTATTTTTTTAAAAACGATTTGAAAAAATATGATGTTCC TTTGTCGTGGGAACAAGCCAGGTTGCAGACGCAGAAGGAGCTACAGCTGAGAGA GGGACGTTTGGCAATAAAGCCTTTTCATCCTTCTGCAAACAATTTTCCCATACC ATTGCTTCACATGCACCGTAACTGGAAGAGGAGCACAGAGTGTGCTCAAGAGGG GAGGATTCCCAGCACAGAGGATCTGATGCGAGGAGCTTCTGCTGAGGAGCTCTT GGCGCAGTGTTTGTC		ASGLMLLLPPKMKSEDMAEEDVY WLSALLQLKQLLQAKPFQPALPL VVLVPSPGGDAVEKEVEDGLMLQ DLVSAKLISDYTVTEIPDTINDL QGSTKVLQAVQWLVSHCPHSLDL CCQTLIQYVEDGIGHEFSGRFFH DRRERRLGGLASQEPGAIIELFN SVLQFLASVVSSEQLCDLSWPVT EFAEAGGSRLLPHLHWNAPEHLA WLKQAVLGFQLPQMDLPPLGAPW LPVCSMVVQYASQIPSSRQTQPV LQSQVENLLHRTYCRWKSKSPSP VHGAGPSVMEIPWDDLIALCINH KLRDWTPPRLPVTSEALSEDGQI CVYFFKNDLKKYDVPLSWEQARL QTQKELQLREGRLAIKPFHPSAN NFPIPLLHMHRNWKRSTECAQEG RIPSTEDLMRGASAEELLAQCL
Human SOCS3_v1	9	prey1123	460	CTTGGAGTTTCAGGCAAAACACATGGACCAGCCTTTGCCCACTGCCATTGGCTT ATATAAGAACCACCCTCTGTATGCCCTGAAGCGGCATCTCCTGAAATATGAGGC CATCTATCCCGAGACAGCTGCCATCCTTGGGTATTGTCGTGGAGAAGCGGTCTA CTCCAGGGATTGTGTGCACACTCTGCATTCCAGAGACACGTGGCTGAAGAAAGC AAGAGTGGTGAGGCTTGGAGAAGTACCCTACAAGATGGTGAAAGGCTTTTCTAA CCGTGCTCGGAAAGCCCGACTTGCTGAGCCCCAGCTGCGGGAAGAAAATGACCT GGGCCTGTTTGGCTACTGGCAGACAGAGGAGTATCAGCCCCCAGTGGCCGTGGA CGGGAAGGTGCCCCGGAACGAGTTTGGGAATGTGTACCTCTTCCTGCCCAGCAT GATGCCTATTGGCTGTGTCCAGCTGAACCTGCCCAATCTACACCGCGTGGCCCG CAAGCTGGACATCGACTGTGTCCAGGCCATCACTGGCTTTGATTTCCATGGCGG CTACTCCCATCCCGTGACTGATGGATACATCGTCTGCGAGGAATTCAAAGAC	1198	LEFQAKHMDQPLPTAIGLYKNHP LYALKRHLLKYEAIYPETAAILG YCRGEAVYSRDCVHTLHSRDTWL KKARVVRLGEVPYKMVKGFSNRA RKARLAEPQLREENDLGLFGYWQ TEEYQPPVAVDGKVPRNEFGNVY LFLPSMMPIGCVQLNLPNLHRVA RKLDIDCVQAITGFDFHGGYSHP VTDGYIVCEEFKD
Human SOCS3_v1	9	prey72650	461	GGCGTCCTGTTCTTCCTGGGGGACTGGCAGCACAAATAAAAATTTGCCCATTAT GTCAACAGCATCTGTGGAAATCGATGATGCATTGTATAGTCGACAGAGGTACGT TCTTGGAGACACAGCAATGCAGAAGATGGCCAAGTCCCATGTTTTCTTAAGTGG GATGGGTGGTCTTGGTTTGGAAATTGCAAAGAATCTTGTTCTTGCAGGGATTAA	1199	ASCSSWGTGSTNKNLPIMSTASV EIDDALYSRQRYVLGDTAMQKMA KSHVFLSGMGGLGLEIAKNLVLA GIKAVTIHDTEKCQAWDLGTNFF

				GGCAGTTACAATTCATGATACAGAAAAATGCCAAGCATGGGATCTAGGAACCAA CTTCTTTCTCAGTGAAGATGATGTTGTTAATAAGAGAAACAGGGCTGAAGCTGT ACTTAAACATATTGCAGAACTAAATCCATACGTTCATGTCACATCATCTTCTGT TCCTTTCAATGAGACCACAGATCTCTCCTTTTTAGATAAATACCAGTGTGTAGT ATTGACTGAGATGAAACTTCCATTGCAGAAGAAGATCAATGACTTTTGCCGTTC TCAGTGCCCTCCAATTAAGTTTATCAGTGCAGATGTACATGGAATTTGGTCAAG GTTATTTTGTGATTTCGGTGATGAATTTGAAGTTTTAGATACAACAGGAGAAGA ACCAAAAGAAATTTTCATTTCAAACATAACGC		LSEDDVVNKRNRAEAVLKHIAEL NPYVHVTSSSVPFNETTDLSFLD KYQCVVLTEMKLPLQKKINDFCR SQCPPIKFISADVHGIWSRLFCD FGDEFEVLDTTGEEPKEIFISNI T
Human SOCS3_v1	9	prey97270	462	CAACAAGCGAGTAGAAGCCATGAAACAGTATCAGGAAGAAATTCAAGAACTTAA TGAAGTCGCGAGACATCGGCCACGGTCCACGTTAGTTATGGGAATCCAGCAAGA AAACAGACAAATCAGAGAGTTGCAACAAGAAAACAAAGAATTACGTACATCTCT GGAAGAACATCAGTCGGCCTTGGAACTTATAATGAGCAAGTACCGAGAACAAAT GTTTAGATTGCTAATGGCTAGCAAAAAAGATGATCCGGGTATAATAATGAAGTT AAAAGAGCAGCACTCCAAGATTGACATGGTACATCGTAACAAGTCCGAAGGATT CTTCCTTGATGCATCTCGACACATCCTTGAAGCACCTCAACATGGACTGGAGAG AAGGCACTTGGAAGCAAATCAGAATGAACTGCAAGCACATGTTGACCAGATAAC TGAAATGGCAGCAGTAATGAGGAAAGCCATTGAAATTGACGAGCAACAGGGTTG CAAGGAACAAGAACGAATATTTCAACTTGAACAAGAAAACAAAGGCTTGAGAGA GATCCTTCAAATAACTCGAGAATCATTTTTGAACCTAAGGAAAGATGATGCGTC GGAAAGTACTTCTTTGTCAGCATTAGTGACCAACAGTGATTTGAGTCTGAGGAA GAGCTGA	1200	NKRVEAMKQYQEEIQELNEVARH RPRSTLVMGIQQENRQIRELQQE NKELRTSLEEHQSALELIMSKYR EQMFRLLMASKKDDPGIIMKLKE QHSKIDMVHRNKSEGFFLDASRH ILEAPQHGLERRHLEANQNELQA HVDQITEMAAVMRKAIEIDEQQG CKEQERIFQLEQENKGLREILQI TRESFLNLRKDDASESTSLSALV TNSDLSLRKS*
Human SOCS3_v1	9	prey4578	463	TAAAGGAGAAATGAGCCGTCCTGGGGAGGTGTGCTCTGCTCTCAACCTCTGCGA GTCTCTCCAGAAGCACCTAGCAGAGCTGAATCACCAGAAGCAGCTGGAGTCCAA TAAGATCCCAGAGCTGGACATGACTGAGGTGGTGGCCCCCTTCATGGCCAACAT CCCTCTCCTCCTCTACCCTCAGGACGGCCCCCGCAGCAAGCCCCAGCCAAAGGA TAATGGGGACGTTTGCCAGGACTGCATTCAGATGGTGACTGACATCCAGACTGC TGTACGGACCAACTCCACCTTTGTCCAGGCCTTGGTGGAACATGTCAAGGAGGA GTGTGACCGCCTGGGCCCTGGCATGGCCGACATATGCAAGAACTATATCAGCCA GTATTCTGAAATTGCTATCCAGATGATGATGCACATGCAACCCAAGGAGATCTG TGCGCTGGTTGGGTTCTGTGATGAGGTGA	1201	KGEMSRPGEVCSALNLCESLQKH LAELNHQKQLESNKIPELDMTEV VAPFMANIPLLLYPQDGPRSKPQ PKDNGDVCQDCIQMVTDIQTAVR TNSTFVQALVEHVKEECDRLGPG MADICKNYISQYSEIAIQMMMHM QPKEICALVGFCDEV
Human SOCS3_v1	9	hgx90	464	GCAAGGCATGCGGACACACGCCGTCTCTGTGTCAGAAACAGATGATTATGCTGA GATTATAGATGAAGAAGATACTTACACCATGCCCTCAACCAGGGATTATGAGAT TCAAAGAGAAAGAATAGAACTTGGACGATGTATTGGAGAAGGCCAATTTGGAGA TGTACATCAAGGCATTTATATGAGTCCAGAGAATCCAGCTTTGGCGGTTGCAAT TAAAACATGTAAAAACTGTACTTCGGACAGCGTGAGAGAGAAATTTCTTCAAGA AGCCTGCCATTACACATCTTTGCACTGGAATTGGTGCAGATATATAAGTGATCC TAATGTTGATGCCTGCCCAGACCCCAGGAATGCAGAGTTAACAATGCGTCAGTT TGACCATCCTCATATTGTGAAGCTGATTGGAGTCATCACAGAGAATCCTGTCTG GATAATCATGGAGCTGTGCACACTTGGAGAGCTGAGGTCATTTTTGCAAGTAAG	1202	QGMRTHAVSVSETDDYAEIIDEE DTYTMPSTRDYEIQRERIELGRC IGEGQFGDVHQGIYMSPENPALA VAIKTCKNCTSDSVREKFLQEAC HYTSLHWNWCRYISDPNVDACPD PRNAELTMRQFDHPHIVKLIGVI TENPVWIIMELCTLGELRSFLQV RKYSLDLASLILYAYQLSTALAY LESKRFVHRDIAARNVLVSSNDC

				GAAATACAGTTTGGATCTAGCATCTTTGATCCTGTATGCCTATCAGCTTAGTACAGCTCTTGCATATCTAGAGAGCAAAAGATTTGTACACAGGGACATTGCTGCTCGGAATGTTCTGGTGTCCTCAAATGATTGTGTAAAATTAGGAGACTTTGGATTATCCCGATATATGGAAGATAGTACTTACTACAAAGCTTCCAAAGGAAAATTGCCTATTAAATGGATGGCTCCAGAGTCAATCAATTTTCGACGTTTTACCTCAGCTAGTGACGTATGGATGTTTGGTGTGTGTATGTGGGAGATACTGATGCATGGTGTGAAGCCTTTTCAAGGAGTGAAGAACAATGATGTAATCGGTCGAATTGAAAATGGGGAAAGATTACCAATGCCTCCAAATTGTCCTCCTACCCTCTACAGCCTTATGACGAAATGCTGGGCCTATGACCCCAGCAGGCGGCCCAGGTTTACTGAACTTAAAGCTCAGCTCAGCACAATCCTGGAGGAAGAGAAGGCTCAGCAAGAAGAGC		VKLGDFGLSRYMEDSTYYKASKGKLPIKWMAPESINFRRFTSASDVWMFGVCMWEILMHGVKPFQGVKNNDVIGRIENGERLPMPPNCPPTLYSLMTKCWAYDPSRRPRFTELKAQLSTILEEEKAQQEE
Human SOCS3_v1	9	prey376	465	GGGTAGTCCTGGAGTCAACGGTGCTCCTGGTGAAGCTGGTCGTGATGGCAACCCTGGGAACGATGGTCCCCCAGGTCGCGATGGTCAACCCGGACACAAGGGAGAGCGCGGTTACCCTCGCAATATTGGTCCCGTTGGTGCTGCAGGTGCACCTGGTCCTCATGGCCCCGTGGGTCCTGCTGGCAAACATGGAAACCGTGGTGAAACTGGTCCTTCTGGTCCTGTTGGTCCTGCTGGTGCTGTTGGCCCAAGAGGTCCTAGTGGCCCACAAGGCATTCGTGGCGATAAGGGAGAGCCCGGTGAAAAGGGGCCCAGAGGTCTTCCTGGCTTAAAGGGACACAATGGATTGCAAGGTCTGCCTGGTATCGCTGGTCACCATGGTGATCAAGGTGCTCCTGGCTCCGTGGGTCCTGCTGGTCCTAGGGGCCCTGCTGGTCCTTCTGGCCCTGCTGGAAAAGATGGTCGCACTGGACATCCTGGTACGGTTGGACCTGCTGGCATTCGAGGCCCTCAGGGTCACCAAGGCCCTGCTGGCCCCCCTGGTCCCCCTGGCCCTCCTGGACCTCCAGGTGTAAGCGGTGGTGGTTATGACTTTGGTTACGATGGAGACTTCTACAGGGCTGACCAGCCTCGCTCAGCACCTTCTCTCAGACCCAAGGACTATGAAGTTGATGCTACTCTGAAGTCTCTCAACAACCAGATTGAGACCCTTCTTACTCCTGAAGGCTCTAGAAAGAACCCAGCTCGCACATGCCGTGACTTGAGACTCAGCCACCCAGAGTGGAGCAGTGGTTACTACTGGATTGACCCTAACCAAGGATGCACTATGGATGCTATCAAAGTATACTGTGATTTCTCTACTGGCGAAACCTGTATCCGGGCCCAACCTGAAAACATCCCAGCCAAGAACTGGTATAGGAGCTCCAAGGACAAGAAACACGTCTGGCTAGGAGAAACTATCAATGCTGGCAGCCAGTTTGAATATAATGTAGAAGGAGTGACTTCCAAGGAAATGGCTACCCAACTTGCCTTCATGCGCCTGCTGGCCAACTATGCCTCTCAGAAC	1203	GSPGVNGAPGEAGRDGNPGNDGPPGRDGQPGHKGERGYPGNIGPVGAAGAPGPHGPVGPAGKHGNRGETGPSGPVGPAGAVGPRGPSGPQGIRGDKGEPGEKGPRGLPGLKGHNGLQGLPGIAGHHGDQGAPGSVGPAGPRGPAGPSGPAGKDGRTGHPGTVGPAGIRGPQGHQGPAGPPGPPGPPGPPGVSGGGYDFGYDGDFYRADQPRSAPSLRPKDYEVDATLKSLNNQIETLLTPEGSRKNPARTCRDLRLSHPEWSSGYYWIDPNQGCTMDAIKVYCDFSTGETCIRAQPENIPAKNWYRSSKDKKHVWLGETINAGSQFEYNVEGVTSKEMATQLAFMRLLANYASQN
Human SOCS3_v1	9	prey97278	466	TGGACCAGAAAATACCCAGCCAATTTTAGATGATGTTTCAGACTTTGATGTGGCACAGATTATAATCAGGATAAATACTGCAACAACTGTAGCTGACTTAAAGTCAATAATAAATGAATGCTATAACTACCTTGAGTTAATTGGATGTCTCAGACTTATAACGACATTAAGTGATAAATATATGTTAGTAAAAGACATACTTGGCTACCATGTAATTCAGAGAGTCCACACACCCTTTGAAAGTTTTAAGCAGGGTCTGAAAACCCTTGGTGTTTTGGAGAAAATTCAGGCTTATCCAGAAGCATTTTGTAGCATCCTGTGTCATAAACCTGAGAGTCTTTCTGCAAAAATCCTTAGTGAGCTTTTTACAGTACACACATTACCTGATGTGAAAGCTTTGGGGTTTTGGAACAGTTACTTACAGGCTGTTGAAGATGGTAAATCTACAACAACAATGGAAGACATTCTTATTTTTGCAACTGGTTG	1204	GPENTQPILDDVSDFDVAQIIIRINTATTVADLKSIINECYNYLELIGCLRLITTLSDKYMLVKDILGYHVIQRVHTPFESFKQGLKTLGVLEKIQAYPEAFCSILCHKPESLSAKILSELFTVHTLPDVKALGFWNSYLQAVEDGKSTTTMEDILIFATGCSSIPPAGFKPTPSIECLHVDFPVGNECNNCLAIPITNTYKEFQEN

				CAGTTCCATTCCTCCAGCTGGATTTAAACCCACTCCTTCAATTGAGTGTCTGCATGTGGATTTTCCTGTTGGAAACGAGTGTAATAACTGTTTAGCAATTCCCATCACCAATACATATAAAGAGTTTCAAGAAAATATGGACTTCACCATAAGAAACACTCTAAGACTAGAAAAGGAAGAAAGTTCTCATTACATTGGACATTAA		MDFTIRNTLRLEKEESSHYIGH*
Human SOCS3_v1	9	prey97284	467	CCAGCCAGAGCGTGCGCTGTACATCCAGGCCAACAACTGCGTGGAGGCCAAGGACTGGATCGACATTCTCACCAAAGTGAGCCAGTGCAACCAGAAGCGCCTCACCGTCTACCACCCGTCCGCCTACCTGAGCGGCCACTGGCTGTGCTGTAGGGCGCCATCCGACTCGGCTCCGGGCTGCTCGCCCTGCACTGGCGGCCTCCCAGCCAACATCCAGCTGGACATTGATGGGGACCGTGAGACGGAGCGTATCTACTCCCTCTTCAACTTGTACATGAGCAAGCTGGAGAAGATGCAGGAGGCCTGTGGGAGCAAATCTGTGTATGACGGCCCGGAGCAGGAGGAGTATTCGACGTTCGTCATTGACGACCCCCAGGAGACCTACAAGACGCTAAAGCAAGTCATCCGCTGGGTTGGGGCTTTGGAGCAGGAGCACGCCCAGTATAAGAGGGACAAGTTCAAGAAGACGAAATATGGAAGCCAGGAGCACCCCATCGGAGACAAGAGCTTCCAGAACTACATCCGGCAGCAGTCCGAGACCTCCACTCATTCCATTTAA	1205	QPERALYIQANNCVEAKDWIDILTKVSQCNQKRLTVYHPSAYLSGHWLCCRAPSDSAPGCSPCTGGLPANIQLDIDGDRETERIYSLFNLYMSKLEKMQEACGSKSVYDGPEQEEYSTFVIDDPQETYKTLKQVIRWVGALEQEHAQYKRDKFKKTKYGSQEHPIGDKSFQNYIRQQSETSTHSI*
Human SOCS3_v1	9	prey97287	468	TCCCCCGACTCTGCATCGTCCCTCAGCCCTGGNATGTGCCCCATGCTCCACCCTGCCCCTCGAGTGTCCGAGCAGANAAGCCTTCCTGCGGAAACCCGGCTCTCCTGAAGTCCAACCACTCAGGTTCCTCGCACCCTGCCCTTGTTCTGGCCCAGGTGATGGTTNTGTNCCTNCTGNTGCCNTTGCTGTGGGNNCTGNTGCNTGTGCTGGGGTNGGNGTGTTGGNTGGNCTGGGGNGNTNGGGNTGGCTGTGGGGGNNGGGNCGGGGTGGTGGNTGGGGGATGNNCGCCNCNGTGTNNGGNNGTGGC	1206	SPDSASSLSPGMCPMLHPAPRVSEQXSLPAETRLS*SPTTQVPRTLPLFWPR*WXCXXXCXCCGXXCXCWGXXVGWXGXXGXAVGXGXGWWXGDXRXXVXXW
Human SOCS3_v1	9	prey34218	469	CAGGAATATGGAGTGTCTAGGAATGTTACATGAATCCCAAGAAGAAATAAAGGAACTTCGTAGTAGATCTGGCCCTACTGCTCATCTCTACTTCTCCCAATCATATGGAGCTTTTACTGGGGAATCTTTGGCAGCTGAGATTGAGGGACTATGCGTAAAAAGCTGAGTTTGGATGAGGAATCTTCTCTCTTTAAACAAAAAGCCCAACAGAAGCGGGTATTTGATACCGTCAGGATTGCCAATGACACACGGGGCCGCTCTATCTCATTCCCAGCTCTGTTACCCATTCCAGGCTCCAACCGTTCAAGTGTCATCATGACAGCAAAACCTTTTGAGTCTGGTCTTCAGCAAACAGAGGACAAATCACTCCTGAACCAGGGGAGCAGCTCAGAGGAGGTTGCAGGGAGCTCCCAGAAGATGGGCCAACCAGGACCCTCAGGAGATAGTGATTTGGCTACAGCACTGCATCGCCTTAGCTTGCGTCGACAAAACTATTTAAGTGAGAAGCAGTTCTTTGCTGAAGAATGGCAGCGGAAGATCCAGGTTCTGGCAGACCAGAAGGAAGGAGTTAGTGGCTGTGTCACCCCGACAGAGAGCCTTGCCTCTCTCTGCACCACCCAGTCAGAGATCACAGACCTCAGCAGTGCCAGTTGCCTTCGAGGTTTTATGCCAGAAAAATTACAAATTGTCAAGCCCCTTGAAGGATCACAAACTCTGTATCACTGGCAGCAGCTTGCTCAACCAAACTTGGGAACCATCCTTGATCCACGACCAGGTGTCATTACTAAAGGCTTTACCCAGTTGCCCGGGGATGCTATTTATCACATCTCAGATTTAGAAGAGGATGAAGAGGAGGGTATTACTTTTCAGGTTCAGCAACC	1207	RNMECLGMLHESQEEIKELRSRSGPTAHLYFSQSYGAFTGESLAAEIEGTMRKKLSLDEESSLFKQKAQQKRVFDTVRIANDTRGRSISFPALLPIPGSNRSSVIMTAKPFESGLQQTEDKSLLNQGSSSEEVAGSSQKMGQPGPSGDSDLATALHRLSLRRQNYLSEKQFFAEEWQRKIQVLADQKEGVSGCVTPTESLASLCTTQSEITDLSSASCLRGFMPEKLQIVKPLEGSQTLYHWQQLAQPNLGTILDPRPGVITKGFTQLPGDAIYHISDLEEDEEEGITFQVQQ
Human	9	prey97289	470	GNGGANTTTNNTGCGANGATGNANGGATCCGAGACCTGTGTACCGCTCCTTCAT	1208	XXFXAXMXGSETCVPLLHXYYAF

SOCS3_v1				GNTTACTACGCGTTCTGTNCATTGNTNCCATACTNTNAACTATNATATGNGGTA ACTGTTGTANNCANAGATTTNCTGANTCNATGTCANTCATTTGATTCTNANTTC ACTGCTGATTNCATNCAACCAACACTGCTTTTTCTGAAGTCTACTCNNNTTATT CATGCTGGTGATGATTTTGTGCGGGGTCTGNGGNCANNCTGCACNNTGGGGTGG ANNGTGTGTCGGGATGGTGGGGGGGGCGTGGTGGGGCTGGGTGGGGGTGNNGCC CGTGGGGNGGNCCGGGNTGTNGNTGGGTNGTGNGGCGNCGGCGGGGTACGNGGN GTGTGG		CXLXPYXXLXYXVTVVXXDXLXX CXSFDSXFTADXXQPTLLFLKST XXIHAGDDFVRGLXXXCTXGWXV CRDGGGGVVGLGGGXARGXXRXV XGXXGXGGVRGVW
Human SOCS3_v1	9	prey7947	471	CCCATACCACTATATCCATGTGCTGGACCAGAACAGCAACGTGTCCCGTGTGGA GGTCGGGCCAAAGACCTACATCCGGCAGGACAATGAGAGGGTACTGTTTGCCCC CATGCGCATGGTGACCGTCCCCCCACGTCACTACTGCACAGTGGCCAACCCTGT GTCTCGGGATGCCCAGGGCTTGGTGCTGTTTGATGTCACAGGGCAAGTTCGGCT TCGCCACGCTGACCTCGAGATCCGGCTGGCCCAGGACCCCTTCCCCCTGTACCC AGGGGAGGTGCTGGAAAAGGACATCACACCCCTGCAGGTGGTTCTGCCCAACAC TGCCCTCCATCTAAAGGCGCTGCTTGATTTTGAGGATAAAGATGGAGACAAGGT GGTGGCAGGAGATGAGTGGCTTTTCGAGGGACCTGGCACGTACATCCCCCGGAA GGAAGTGGAGGTCGTGGAGATCATTCAGGCCACCATCATCAGGCAGAACCAGGC TCTGCGGCTCAGGGCCCGCAAGGAGTGCTGGGACCGGGACGGCAAGGAGAGGGT GACAGGGGAAGAATGGCTGGTCACCACAGTAGGGGCGTACCTCCCAGCGGTGTT TGAGGAGGTTCTGGATTTGGTGGACGCCGTCATCCTTACGGAAAAGACAGCCCT GCACCTCCGGGCTCGGCGGAACTTCCGGGACTTCAGGGGAGTGTCCCGCCGCAC TGGGGAGGAGTGGCTGGTAACAGTGCAGGACACAGAGGCCCACGTGCCAGATGT CCACGAGGAGGTGCTGGGGGTTGTGCCCATCACCACCCTGGGCCCCCACAACTA CTGCGTGATTCTCGACCCTGTCGGACCG	1209	PYHYIHVLDQNSNVSRVEVGPKT YIRQDNERVLFAPMRMVTVPPRH YCTVANPVSRDAQGLVLFDVTGQ VRLRHADLEIRLAQDPFPLYPGE VLEKDITPLQVVLPNTALHLKAL LDFEDKDGDKVVAGDEWLFEGPG TYIPRKEVEVVEIIQATIIRQNQ ALRLRARKECWDRDGKERVTGEE WLVTTVGAYLPAVFEEVLDLVDA VILTEKTALHLRARRNFRDFRGV SRRTGEEWLVTVQDTEAHVPDVH EEVLGVVPITTLGPHNYCVILDP VGP
Human SOCS3_v1	9	prey3722	472	CAAAAAAGGAGAAAGAGGATTTCCTGGATACCCAGGACCAAAGGGTAACCCAGG TGAACCTGGGCTAAATGGAACAACAGGACCCAAAGGCATCAGAGGCCGAAGGGG AAATTCGGGACCTCCAGGGATAGTTGGACAGAAGGGGAGACCTGGCTACCCAGG ACCAGCTGGTCCAAGGGGCAACAGGGGCGACTCCATCGATCAATGTGCCCTCAT CCAAAGCATCAAAGATAAATGCCCTTGCTGTTACGGGCCCCTGGAGTGCCCCGT CTTCCCAACAGAACTAGCCTTTGCTTTAGACACCTCTGAGGGAGTCAACCAAGA CACTTTCGGCCGGATGCGAGATGTGGTCTTGAGTATTGTGAATGTCCTGACCAT TGCTGAGAGCAACTGCCCGACGGGGGCCCGGGTGGCTGTGGTCACCTACAACAA CGAGGTGACCACGGAGATCCGGTTTGCTGACTCCAAGAGGAAGTCGGTCCTCCT GGACAAGATTAAGAACCTTCAGGTGGCTCTGACATCCAAACAGCAGAGTCTGGA GACTGCCATGTCGTTTGTGGC	1210	KKGERGFPGYPGPKGNPGEPGLN GTTGPKGIRGRRGNSGPPGIVGQ KGRPGYPGPAGPRGNRGDSIDQC ALIQSIKDKCPCCYGPLECPVFP TELAFALDTSEGVNQDTFGRMRD VVLSIVNVLTIAESNCPTGARVA VVTYNNEVTTEIRFADSKRKSVL LDKIKNLQVALTSKQQSLETAMS FV
Human SOCS3_v1	9	prey97301	473	GGCAGATGAGCCACCCAGCCTGGACCCTGTGCAGAGCTTCTCCCAGGAGGCAGT GGACACAGGCAGGGTCCTGTACCTGCACTCCCGCCCTGAGGCCTGGAGCGATGC CTTCTCGCTGGATGTGGCCTCAGGCCTGGGTGCTCCCCTCGAGGGCGTCCTTGT GGAGCTGGAGGTGCTGCCCGCTGCCATCCCACTAGAGGCGCAAAACTTCAGCGT CCCTGAGGGTGGCAGCCTCACCCTGGCCCCTCCACTGCTCCGTGTCTCCGGGCC	1211	ADEPPSLDPVQSFSQEAVDTGRV LYLHSRPEAWSDAFSLDVASGLG APLEGVLVELEVLPAAIPLEAQN FSVPEGGSLTLAPPLLRVSGPYF PTLLGLSLQVLEPPQHGPLQKED

				CTACTTCCCCACTCTCCTGGGCCTCAGCCTGCAGGTGCTGGAGCCACCCCAGCA TGGACCCCTGCAGAAGGAGGACGGACCTCAAGCCAGGACCCTCAGCGCCTTCTC CTGGAGAATGGTGGAAGAGCAGCTGATCCGCTACGTGCATGACGGGAGCGAGAC ACTGACAGACAGTTTTGTCCTGATGGCTAATGCCTCCGAGATGGATCGCCAGAG CCATCCTGTGGCCTTCACTGTCACTGTCCTGCCTGTCAATGACCAACCCCCCAT		GPQARTLSAFSWRMVEEQLIRYV HDGSETLTDSFVLMANASEMDRQ SHPVAFTVTVLPVNDQPP
Human SOCS3_v1	9	prey5409	474	CCTGGAGCGGGAGAAGCAGCTCCGCAGCGAGTTTGAGAGGCTGGAGTGTCTTCA GCGCATCGTGACCAAGCTGCAGATGGAGGCGGGGCTGTGTGAGGAGCAGCTGAA CCAGGCCGACGCCCTGCTGCAGTCGGATGTCCGGCTGCTGGCTGCAGGCAAAGT GCCACAGCGGGCGGGGGAGGTGGAACGGGACTTGGACAAGGCGGATAGCATGAT CCGGCTGCTCTTCAACGACGTGCAGACCCTCAAGGATGGACGGCACCCGCAGGG CGAGCAGATGTACCGCAGGGTGTACCGTCTGCACGAGCGCCTGGTAGCCATCCG CACCGAGTACAACCTACGGCTGAAGGCAGGCGTGGCGGCCCCTGCAACCCAGGT GGCCCAGGTGACTCTGCAGAGTGTGCAGAGGCGCCCCGAGCTGGAGGACTCCAC TCTGCGCTACCTGCAGGACCTGCTGGCCTGGGTGGAGGAGAACCAGCACCGTGT GGATGGCGCTGAGTGGGGTGTGGACCTGCCCAGCGTGGAGGCGCAGCTGGGCAG CCACCGAGGCCTGCACCAGTCCATCGAAGAATTCCGGGCCAAGATCGAGCGGGC ACGGAGTGACGAGGGCCAGCTCTCCCCCGCCACCCGGGGTGCCTACCGTGACTG CCTGGGTCGGCTGGACCTGCAGTACGCCAAGCTGCTGAACTCCTCCAAGGCCCG CCTCAGGTCCCTGGAGAGCTTGCACAGCTTTGTGGCAGCCGCCACTAAGGAGCT AATGTGGCTGAATGAGAAG	1212	LEREKQLRSEFERLECLQRIVTK LQMEAGLCEEQLNQADALLQSDV RLLAAGKVPQRAGEVERDLDKAD SMIRLLFNDVQTLKDGRHPQGEQ MYRRVYRLHERLVAIRTEYNLRL KAGVAAPATQVAQVTLQSVQRRP ELEDSTLRYLQDLLAWVEENQHR VDGAEWGVDLPSVEAQLGSHRGL HQSIEEFRAKIERARSDEGQLSP ATRGAYRDCLGRLDLQYAKLLNS SKARLRSLESLHSFVAAATKELM WLNEK
Human SOCS3_v1	9	prey97310	475	CCGCCTCAGCTTCCCGAGCGAGCCCTGCGGCCGCCGGAGCAGCTCCCGCGGCGG AGCAGGAGCCGGATGGTCAGAGGAGCCCGGCAGCCCCAGCAGCCGCGGAGTCGC CTGGCCCCCAGACTGACTGGCACAGTGGAGAAACCGCCTCGGAAAACGGAGAAG CAGGACTGAATTTGCTCTTAAAGAAATCATGTCCTCTGGAGGTGCTGAAGATGA TATCCCACGNGGGNTATNTGAAGACANGNTGCGNGGTTTTTGTTGTGTTTGTGG GGTGAGTGTGGGNGGGTGNGGGGGTGGGGTGGGGNTGGTTGNGGGGGGGTGT GGGGGCGGGNTGGGGGGGGGGGGGGGGTGGTGGTGGGGGGGGNAGGGGGGG GGG	1213	PPQLPERALRPPEQLPRRSRSRM VRGARQPQQPRSRLAPRLTGTVE KPPRKTEKQD*ICS*RNHVLWRC *R*YPTXXX*RXXAXFLLCLWGE CGXVXGWGGGWLXGGCGGGXGGG GGGGGGGGXGGG
Human SOCS3_v1	9	prey31793	476	CCTCAACTTTGGCCAAGTGGTGGCCGCTGTGCTCTGCGAGTTCCTGGAGGTGGC TGTGCATCTCATCCTCTACGTGCGCGAGGTCTACCCCGTGGGCATCTTCCAGAA ACGCAAGAAGTACAACGTGCCGGTCCAGATGTCCTGCCACCCGGAGCTGAATCA GTATATCCAGGACACGCTGCACTGCGTCAAGCCACTCCTGGAGAAGAATGATGT GGAGAAAGTGGTGGTGGTGATTTTGGATAAAGAGCACCGCCCAGTGGAGAAATT CGTCTTTGAGATCACCCAGCCTCCACTGCTGTCCATCAGCTCAGACTCGCTGTT GTCTCATGTGGAGCAGCTGCTCCGGGCCTTCATCCTGAAGATCAGCGTGTGCGA TGCCGTCCTGGACCACAACCCCCCAGGCTGTACCTTCACAGTCCTGGTGCACAC GAGAGAAGCCGCCACTCGCAACATGGAGAAGATCCAGGTCATCAAGGATTTCCC CTGGATCCTGGCGGATGAGCAGGATGTCCACATGCATGACCCCCG	1214	LNFGQVVAAVLCEFLEVAVHLIL YVREVYPVGIFQKRKKYNVPVQM SCHPELNQYIQDTLHCVKPLLEK NDVEKVVVVILDKEHRPVEKFVF EITQPPLLSISSDSLLSHVEQLL RAFILKISVCDAVLDHNPPGCTF TVLVHTREAATRNMEKIQVIKDF PWILADEQDVHMHDP
Human	9	prey1469	477	TGCTGGCCCTGCTGGTGCTCCCGGTCCTGCTGGTTCCCGAGGTGCTCCTGGTCC	1215	AGPAGAPGPAGSRGAPGPQGPRG

SOCS3_v1				TCAAGGCCCACGTGGTGACAAAGGTGAAACAGGTGAACGTGGAGCTGCTGGCATCAAAGGACATCGAGGATTCCCTGGTAATCCAGGTGCCCCAGGTTCTCCAGGCCCTGCTGGTCAGCAGGGTGCAATCGGCAGTCCAGGACCTGCAGGCCCCAGAGGACCTGTTGGACCCAGTGGACCTCCTGGCAAAGATGGAACCAGTGGACATCCAGGTCCCATTGGACCACCAGGGCCTCGAGGTAACAGAGGTGAAAGAGGATCTGAGGGCTCCCCAGGCCACCCAGGGCAACCAGGCCCTCCTGGACCTCCTGGTGCCCCTGGTCCTTGCTGTGGTGGTGTTGGAGCCGCTGCCATTGCTGGGATTGGAGGTGAAAAAGCTGGCGGTTTTGCCCCGTATTATGGAGATGAACCAATGGATTTCAAAATCAACACCGATGAGATTATGACTTCACTCAAGTCTGTTAATGGACAAATAGAAAGCCTCATTAGTCCTGATGGTTCTCGTAAAAACCCCGCTAGAAACTGCAGAGACCTGAAATTCTGCCATCCTGAACTCAAGAGTGGAGAATACTGGGTTGACCCTAACCAAGGATGCAAATTGGATGCTATCAAGGTATTCTGTAATATGGAAACTGGGGAAACATGCATAAGTGCCAATCCTTTGAATGTTCCACGGAAACACTGGTGGACAGATTCTAGTGCTGAGAAGAAACACGTTTGGTTTGGAGAGTCCATGGATGGTGGTTTTCAGTTTAGCTACGGCAATCCTGAACTTCCTGAAGATGTCCTTGATGTGCAGCTGGCATTCCTTCGACTTCTCTCCAGC		DKGETGERGAAGIKGHRGFPGNPGAPGSPGPAGQQGAIGSPGPAGPRGPVGPSGPPGKDGTSGHPGPIGPPGPRGNRGERGSEGSPGHPGQPGPPGPPGAPGPCCGGVGAAAIAGIGGEKAGGFAPYYGDEPMDFKINTDEIMTSLKSVNGQIESLISPDGSRKNPARNCRDLKFCHPELKSGEYWVDPNQGCKLDAIKVFCNMETGETCISANPLNVPRKHWWTDSSAEKKHVWFGESMDGGFQFSYGNPELPEDVLDVQLAFLRLLSS
Human SOCS3_v1	9	prey3549	478	ATGGGAGGCATTATGGCCCCCAAAGACATAATGACAAATACTCATGCTAAATCCATCCTCAATTCAATGAACTCCCTCAGGAAGAGCAATACCCTCTGTGATGTGACATTGAGAGTAGAGCAGAAAGACTTCCCTGCCCATCGGATTGTGCTGGCTGCCTGTAGTGATTACTTCTGTGCCATGTTCACTAGTGAGCTCTCAGAGAAGGGGAAACCTTATGTTGACATCCAAGGTTTGACTGCCTCTACCATGGAAATTTTATTGGACTTTGTGTACACAGAAACAGTACATGTGACAGTGGAGAATGTACAAGAACTGCTTCCTGCAGCCTGTCTGCTTCAGTTGAAAGGTGTGAAACAAGCCTGCTGTGAGTTCTTAGAAAGTCAGTTGGACCCTTCTAATTGCCTGGGTATTAGGGATTTTGCTGAAACCCACAATTGTGTTGACCTGATGCAAGCAGCTGAGGTTTTTAGCCAGAAGCATTTTCCTGAAGTGGTACAGCATGAAGAGTTCATTCTTCTGAGTCAAGGAGAGGTGGAAAAGCTAATCAAGTGCGACGAAATTCAGGTGGATTCTGAAGAGCCAGTCTTTGAGGCTGTCATCAACTGGGTGAAGCATGCCAAGAAAGAGCGGGAAGAATCCTTGCCTAACCTGCTACAGTATGTGCGGATGCCCCTACTAACCC	1216	MGGIMAPKDIMTNTHAKSILNSMNSLRKSNTLCDVTLRVEQKDFPAHRIVLAACSDYFCAMFTSELSEKGKPYVDIQGLTASTMEILLDFVYTETVHVTVENVQELLPAACLLQLKGVKQACCEFLESQLDPSNCLGIRDFAETHNCVDLMQAAEVFSQKHFPEVVQHEEFILLSQGEVEKLIKCDEIQVDSEEPVFEAVINWVKHAKKEREESLPNLLQYVRMPLLT
Human SOCS3_v1	9	prey17791	479	AACCTGTCCCGACTCCAGCCGCCTCTTCAGCTCGCCATGGATCCCAACTGCTCCTGTGCCGCCAGTGACTCCTGCACCTGCGCCGGCTCCTGCAAGTGCAAAGAGTGCAAATGCACCTCCTGCAAGAAAAGCTGCTGCTCCTGCTGTCCTGTGGGCTGTGCCAAGTGTGCCCAGGGCTGCATCTGCAAAGGGGCGTCGGACAAGTGCAGCTGCTGTGCCTGATGCTGGGACAGCCTGCCCCCAGATGTAAATAACGCGACCTCTACAAACTTGGATTTTTTATGTACAACCCTGACCCTGACGTTTGCTACATTCCTTTTTCTATGAAATAATGTGAATGATAATAAAACAGCTTTGACTTGA	1217	TCPDSSRLFSSPWIPTAPVPPVTPAPAPAPASAKSANAPPARKAAAPAVLWAVPSVPRAASAKGRRTSAAAVPDAGTACPQM*ITRPLQTWIFYVQP*P*RLLHSFFYEIM*MIIKQL*L
Human SOCS3_v1	9	prey35149	480	CTTCAACACCCCAGCCATGTACGTTGCTATCCAGGCTGTGCTATCCCTGTACGCCTCTGGCCGTACCACTGGCATCGTGATGGACTCCGGTGACGGGGTCACCCACACTGTGCCCATCTACGAGGGGTATGCCCTCCCCCATGCCATCCTGCGTCTGGACCT	1218	FNTPAMYVAIQAVLSLYASGRTTGIVMDSGDGVTHTVPIYEGYALPHAILRLDLAGRDLTDYLMKILTE

				GGCTGGCCGGGACCTGACTGACTACCTCATGAAGATCCTCACCGAGCGCGGCTACAGCTTCACCACCACGGCCGAGCGGGAAATCGTGCGTGACATTAAGGAGAAGCTGTGCTACGTCGCCCTGGACTTCGAGCAAGAGATGGCCACGGCTGCTTCCAGCTCCTCCCTGGAGAAGAGCTACGAGCTGCCTGACGGCCAGGTCATCACCATTGGCAATGAGCGGTTCCGCTGCCCTGAGGCACTCTTCCAGCCTTCCTTCCTGGGCATGGAGTCCTGTGGCATCCACGAAACTACCTTCAACTCCATCATGAAGTGTGACGTGGACATCCGCAAAGACCTGTACGCCAACACAGTGCTGTCTGGCGGCACCACCATGTACCCTGGCATTGCCGACAGGATGCAGAAGGAGATCACTGCCCTGGCACCCAG		RGYSFTTTAEREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPDGQVITIGNERFRCPEALFQPSFLGMESCGIHETTFNSIMKCDVDIRKDLYANTVLSGGTTMYPGIADRMQKEITALAP
Human SOCS3_v1	9	prey87039	481	CCTGAGAGTCTTTGGTGAAACAACCAATAGCCTCTCGGTAGCCTGGGATCATGCTGATGGGCCAGTTCAGCAGTACAGGATCATCTATTCTCCCACTGTTGGTGATCCAATTGATGAATATACCACAGTCCCAGGCAGAAGAAACAATGTAATACTGCAGCCCCTGCAACCTGACACTCCATATAAAATTACTGTTATTGCTGTTTATGAAGATGGAGATGGTGGCCATCTAACAGGAAATGGAAGAACTGTGGGACTCCTTCCTCCTCAGAACATACACATCTCTGACGAATGGTATACAAGATTCAGGGTGTCCTGGGATCCTTCACCTTCTCCAGTTCTTGGATATAAAATAGTATATAAGCCAGTGGGTTCCAATGAGCCCATGGAAGCCTTTGTTGGAGAAATGACATCATATACCTTACACAATCTCAATCCCAG	1219	LRVFGETTNSLSVAWDHADGPVQQYRIIYSPTVGDPIDEYTTVPGRRNNVILQPLQPDTPYKITVIAVYEDGDGGHLTGNGRTVGLLPPQNIHISDEWYTRFRVSWDPSPSPVLGYKIVYKPVGSNEPMEAFVGEMTSYTLHNLNP
Human SOCS3_v1	9	prey97339	482	ATGGCATCCGGGGATTTCTGCTCACCTGGAGAAGGGATGGAAATACTTCAACAAGTGTGCAGCAAACAACTTCCTCCTTGTAACCTGAGTAAAGAGGACCTGTTACAGAACCCATACTTCAGCAAGCTTCTCCTGAATCTCTCACAGCATGTGGATGAGAGTGGCTTAAGCCTCACCCTAGCAAAGGAGCAGGCTCAGGCATGGAAGGAAGTTCGACTGCATAAGACAACATGGTTGAGGTCTGAGATTTTACACAGAGTCATTCAAGAGTTGCTTGTGGACTACTATGTGAAGATACAAGACACAAATGTAACTTCTGAGGACAAAAAGTTTCATGAGACCCTTGAACAGCGGCTGCTTGTAACTGAACTGATGCGGCTCTTAGGTCCTAGCCAGGAGAGGGAGATACCTCCACTGCTGGGGCTGGAGAAAGCGGACCTTCTGGAACTCATGCCACTCACAGAGGATTTTGTGTGGATGAGGGCTCGGCTACAGCAAGAAGTAGAGGAGCAGCTCAAAAAGAAATGTTTCACTCTGCTCTGCTACTATGATCCCAATTCAGATGCTGACAGTGAAACCGTG	1220	MASGDFCSPGEGMEILQQVCSKQLPPCNLSKEDLLQNPYFSKLLLNLSQHVDESGLSLTLAKEQAQAWKEVRLHKTTWLRSEILHRVIQELLVDYYVKIQDTNVTSEDKKFHETLEQRLLVTELMRLLGPSQEREIPPLLGLEKADLLELMPLTEDFVWMRARLQQEVEEQLKKKCFTLLCYYDPNSDADSETV
Human SOCS3_v1	9	prey97347	483	GTTGGCCATGGCATTTATTCAAATCACCGAGATTCTCAGATTCCTACTCCTCTAATTATTTCTTCTCTACCAAATTTCTCAACGTACCTATTTCTCTGGTCTTTCCCTCAGCCAGATGCTGGCTTCCCATTTCATCTACTACCCCCAGGAAGCCNTTTATCTACTCCCTCTGATGGANAGGCATTTGTNTGCAATTGATTNAAGTAGATGTATAAAAANGGNNTNGGGTNGTNCTNNATTNNNTNTGGGNGGNGGAGNCGCATGTGTGCNCGGGGGNGGGCCNNGGNGGGTCGGTGGGGCTGGGGTGCTGGTGTGGCGGTNGGGGGNAGANCNTNGGGCTNGGGAGNGCAGGGGGGCGAGTGNNGNGNGGGGGGGGNGGGAGGANAGGNNNGGGGGGGGGGGAGGNGA	1221	VGHGIYSNHRDSQIPTPLIISSLPNFSTYLFLWSFPQPDAGFPFHLLPPGSXLSTPSDGXAFVCN*XK*MYKXGXGXXXIXXGXXXRMCARGXAXXGRWGWGAGVAVGGRXXGXGXQGGEXXXGGXGGXXXGGGRX
Human SOCS3_v1	9	prey97348	484	CAAGGAGCGCATCAGCGACATGTGCAAAGAGAACCGTGAGAGCCTGGTGGTGAACTATGAGGACTTGGCAGCCAGGGAGCACGTGCTGGCCTACTTCCTGCCTGAGGCACCGGCGGAGCTGCTGCAGATCTTTGATGAGGCTGCCCTGGAGGTGGTACTGGC	1222	KERISDMCKENRESLVVNYEDLAAREHVLAYFLPEAPAELLQIFDEAALEVVLAMYPKYDRITNHIHVR

				CATGTACCCCAAGTACGACCGCATCACCAACCACATCCATGTCCGCATCTCCCACCTGCCTCTGGTGGAGGAGCTGCGCTCGCTGAGGCAGCTGCATCTGAACCAGCTGATCCGCACCAGTGGGGTGGTGACCAGCTGCACTGGCGTCCTGCCCCAGCTCAGCATGGTCAAGTACAACTGCAACAAGTGCAATTTCGTCCTGGGTCCTTTCTGCCAGTCCCAGAACCAGGAGGTGAAACCAGGCTCCTGTCCTGAGTGCCAGTCGGCCGGCCCCTTTGAGGTCAACATGGAGGAGACCATCTATCAGAACTACCAGCGTATCCGAATCCAGGAGAGTCCAG		ISHLPLVEELRSLRQLHLNQLIRTSGVVTSCTGVLPQLSMVKYNCNKCNFVLGPFCQSQNQEVKPGSCPECQSAGPFEVNMEETIYQNYQRIRIQESP
Human SOCS3_v1	9	prey97358	485	CCGGACCAGAGACTCTTGTGACTTCTCCTACTGTAGTGAGCCCTCTGAACTGGATGAAACTGTTGAAGAATATGAAGATGAGAACACCCTGTTTGACATGGTTTGTGAGTCTTCTGTTACAGATGAGGATAGTGACTTTGAACCCCAAACCCAAAGGCCTCAAAGCATTGCTCGCAAAAGACCTGGGGTAGTCCCATCTTCCCTCCATTCAAGCTCCCAGACGCAGATGGTTGACGAATGCAGCAATGATGTCATCATCAAGAAAATCAAACAAGAAATCCCCGAAGATTATTACATTGTGGCAAATGCAGAACTGACAGGAGGAGTAGATGGACCAGCCCTGTCCTTGACACAGATGGCAAAACCCAA	1223	RTRDSCDFSYCSEPSELDETVEEYEDENTLFDMVCESSVTDEDSDFEPQTQRPQSIARKRPGVVPSSLHSSSQTQMVDECSNDVIIKKIKQEIPEDYYIVANAELTGGVDGPALSLTQMAKP
Human SOCS3_v1	9	prey97362	486	ATGCACGACGCTTTCGAGCCAGTGCCGATCCTAGAAAAGCTGCCTCTGCAAATCGACTGTCTGGCTGCCTGGGAGGAATGGCTTCTTGTGGGAACCAAACAAGGACATCTTCTTCTCTATAGGATTCGGAAGGACGTTGTGCCAGCAGATGTAGCATCAC	1224	MHDAFEPVPILEKLPLQIDCLAAWEEWLLVGTKQGHLLLYRIRKDVVPADVAS
Human SOCS3_v1	9	prey97363	487	CCTCTTCCCCGGACCCCCTGGCGGCAGCAGCAGCTGGCCCCTGAGACAGTAGCTTCCTGCCCTCCCTCCTTGGCTGGGACTCATCTGCATTTGGCAGTGCTCAGATTAATCCCGATTACCTTCCCTGCTGACTGCGCAGGAGCTGAACAATTTCTCTGGCCCCCGCCCCCATCCCCTGGGAAAACACAGCTGAATGTTCCTACAGCCAATGTCCTCACGAACCAAGAAGATTATGGCCATGTCGGGTTCTAGGAAGAGCAAGGCCAGAGTGTGTTCTTAGGAGGGCAGGAGGCACCGANGGATCTCGTANCTCCCTAAACGGGACAAATGGAGCGAGGCTGTGANCAGGN	1225	PLPRTPWRQQQLAPETVASCPPSLAGTHLHLAVLRLIPITFPADCAGAEQFLWPPPPSPGKTQLNVPTANVLTNQEDYGHVGF*EEQGQSVFLGGQEAPXDLVXP*TGQMERGCXQ
Human SOCS3_v1	9	prey97364	488	GACAGATCATAAGCGAGGGCCAGCTTTCACCAACGGGCTGGGCCATGGGGTGGACTTAAATCATATTTACGGTGAAACTCTGGCTAGACAGCGTAAACTGCGCCTTTTCAAGGATGGAAAAATGAAATATCAGATAATTGATGGAGAGATGTATCCTCCCACAGTCAAAGATACTCAGGCAGAGATGATCTACCCTCCTCAAGTCCCTGAGCATCTACGGTTTGCTGTGGGGCAGGAGGTCTTTGGTCTGGTGCCTGGTCTGATGATGTATGCCACAATCTGGCTGCGGGAACACAACAGAGTATGCGATGTGCTTAAACAGGAGCATCCTGAATGGGGTGATGAGCAGTTGTTCCAGACAAGCAGGCTAATACTGATAGGAGAGACTATTAAGATTGTGATTGAAGATTATGTGCAACACTTGAGTGGCTATCACTTCAAACTGAAATTTGACCCAGAACTACTTTTCAACAAACAATTCCAGTACCAAAATCGTATTGCTGCTGAATTTAACACCCTCTATCACTGGCATCC	1226	TDHKRGPAFTNGLGHGVDLNHIYGETLARQRKLRLFKDGKMKYQIIDGEMYPPTVKDTQAEMIYPPQVPEHLRFAVGQEVFGLVPGLMMYATIWLREHNRVCDVLKQEHPEWGDEQLFQTSRLILIGETIKIVIEDYVQHLSGYHFKLKFDPELLFNKQFQYQNRIAAEFNTLYHWH
Human SOCS3_v1	9	prey68275	489	TGAGGGCACCGTCTACTTCACCCAGGGCTTAGGCCTCAATCTGGAGAATCGGCAGAATGAGCACCACCTGGAGGGTGGCTTTTCCATTGGCTCTGTAGGCCCTGATGGGCAGCTGGGTCGCCAGATTAGCCACTTCTTCTCGGAGAATGAGGATTTCCGCTGCATTGCTGGCATGTGTGTGGATGCTCGTGGTGATCTCATCGTGGCTGACAGTAG	1227	EGTVYFTQGLGLNLENRQNEHHLEGGFSIGSVGPDGQLGRQISHFFSENEDFRCIAGMCVDARGDLIVADSSRKEILHFPKGGGYSVLIREG

				TCGCAAGGAAATTCTCCATTTTCCTAAGGGCGGGGGCTATAGTGTCCTTATTCG AGAGGGACTTACCTGTCCGGTGGGCATAGCCCTAACTCCTAAGGGGCAGCTGCT GGTCTTGGACTGTTGGGATCATTGCATCAAGATCTACAGCTACCATCTGAGAAG ATATTCCACCCCATAG		LTCPVGIALTPKGQLLVLDCWDH CIKIYSYHLRRYSTP*
Human SOCS3_v1	9	prey87363	490	AGCTCTCCAGGTCAATGGCCAGCAAGGAGGGGGGTCCGAGCCGGCGGCGGCGGC GGCAGTGGTGGCAGCGGGAGACAAATGGAAACCTCCACAGGGCACAGACTCCAT CAAGATGGAGAACGGGCAGAGCACAGCCGCCAAGCTGGGGCTGCCTCCCCTGAC GCCCGAGCAGCAGGAGGCCCTTCAGAAGGCCAAGAAGTACGCCATGGAGCAGAG CATCAAGAGTGTGCTGGTGAAGCAGACCATCGCGCACCAGCAGCAGCAGCTCAC CAACCTGCAGATGGCAGCAGTGACAATGGGCTTTGGAGATCCTCTCTCACCTTT GCAATCGATGGCGGCTCAGCGGCAGCGGGCGCTGGCCATCATGTGCCGCGTCTA CGTGGGCTCTATCTACTATGAGCTGGGGGAGGACACCATCCGCCAGGCCTTTGC CCCCTTTGGCCCCATCAAGAGCATCGACATGTCCTGGGACTCCGTCACCATGAA GCACAAGGGCTTTGCCTTCGTGGAGTATGAGGTCCCCGAAGCTGCACAGCTGGC CTTGGAGCAGATGAACTCGGTGATGCTGGGGGGCAGGAACATCAAGGTGGGCAG ACCCAGCAACATAGGGCAGGCCCAGCCCATCATAGACCAGTTGGCTGAGGAGGC ACGGGCCTTCAACCGCATCTACGTGGCCTCTGTGCACCAGGACCT	1228	ALQVNGQQGGGSEPAAAAAVVAA GDKWKPPQGTDSIKMENGQSTAA KLGLPPLTPEQQEALQKAKKYAM EQSIKSVLVKQTIAHQQQQLTNL QMAAVTMGFGDPLSPLQSMAAQR QRALAIMCRVYVGSIYYELGEDT IRQAFAPFGPIKSIDMSWDSVTM KHKGFAFVEYEVPEAAQLALEQM NSVMLGGRNIKVGRPSNIGQAQP IIDQLAEEARAFNRIYVASVHQD
Human SOCS3_v1	9	prey97383	491	CGGGCCCCAGGTGCCCCTGAGCCAGCCTCCAGAGGATGAGCTGGATAGGCTGAC GAAGAAGCTGGTTCACGACATGAACCACCCGCCCAGCGGGGAGTACTTTGGCCA GTGTGGTGGCTGCGGAGAAGATGTGGTTGGGGATGGGGCTGGGGTTGTGGCCCT TGATCGCGTCTTTCACGTGGGCTGCTTTGTATGTTCTACATGCCGGGCCCAGCT TCGCGGCCAGCATTTCTACGCCGTGGAGAGGAGGGCATATTGCGAGGGCTGCTA CGTGGCCACCCTGGAGAAATGTGCCACGTGCTCCCAGCCCATCCTGGACCGGAT CCTGCGGGCTATGGGGAAGGCCTACCACCCTGGCTGCTTCACCTGCGTGGTGTG TCACCGCGGCCTCGACGGCATCCCCTTCACAGTGGATGCTACGAGCCAGATCCA CTGTATTGAGGACTTTCACAGGAAGTTTGCCCCAAGATGCTCAGTGTGCGGTGG GGCCATAATGCCTGAGCCAGGTCAGGAGGAGACTGTGAGAATTGTTGCTCTGGA TCGAAGTTTTCACATTGGCTGTTACAAGTGCGAGGAGTGTGGGCTGCTGCTCTC CTCTGAGGGCGAGTGTCAGGGCTGCTACCCGCTGGATGGGCACATCTTGTGCAA GGCCTGCAGCGCCTGGCGCATCCAGGAGCTCTCAGCCACCGTCACCACTGACTG CTGA	1229	GPQVPLSQPPEDELDRLTKKLVH DMNHPPSGEYFGQCGGCGEDVVG DGAGVVALDRVFHVGCFVCSTCR AQLRGQHFYAVERRAYCEGCYVA TLEKCATCSQPILDRILRAMGKA YHPGCFTCVVCHRGLDGIPFTVD ATSQIHCIEDFHRKFAPRCSVCG GAIMPEPGQEETVRIVALDRSFH IGCYKCEECGLLLSSEGECQGCY PLDGHILCKACSAWRIQELSATV TTDC*
Human SOCS3_v1	9	prey97391	492	TCCATCAACTGCTGCTGCCTTCGGTAATCCTCCTGTATCTCACTTCCCACCTTC AACTTCTGCCCCAAACACTCTTTTACCTGCACCCCCTTCGGGTCCTCCTATATC AGGATTTTCTGTTGGTTCAACTTATGACATTACAAGGGGACATGCTGGGAGAGC TCCCCAGACACCCCTGATGCCATCATTTTCTGCACCTTCAGGAACAGGTCTTTT GCCAACTCCTATTACTCAGCAAGCCAGTTTGACATCTCTGGCACAGGGAACTGG AACCACATCAGCCATTACTTTCCCAGAGGAGCAAGAAGACCCTAGAATTACTAG AGGTCAGGATGAAGCATCTGCTGGTGGAATCTGGGGTTTTATTAAGGGTGTGGC TGGGAATCCTATGGTGAAGTCTGTGCTTGATAAGACAAAACATTCAGTAGAAAG	1230	PSTAAAFGNPPVSHFPPSTSAPN TLLPAPPSGPPISGFSVGSTYDI TRGHAGRAPQTPLMPSFSAPSGT GLLPTPITQQASLTSLAQGTGTT SAITFPEEQEDPRITRGQDEASA GGIWGFIKGVAGNPMVKSVLDKT KHSVESMITTLDPGMAPYIKSGG ELDIVVTSNKEVKVAAVRDAFQE

				CATGATTACAACGCTGGACCCTGGCATGGCTCCCTATATCAAATCTGGAGGTGA ACTGGATATTGTAGTGACCTCAAATAAAGAAGTAAAAGTTGCTGCTGTCCGAGA TGCCTTCCAGGAGGTCTTTGGCTTAGCTGTGGTTGTAGGGGAAGCTGGACAGTC CAATATTGCCCCACAACCAGTGGGCTATGCAGCTGGATTAAAAGGTGCTCAGGA ACGGATAGATAGCTTGCGTCGAACTGGGGTGATCCATGAAAAACAGACAGCTGT GTCAGTAGAAAACTTCATTGCAGAATTGCTGCCTGACAAATGGTTTGACATTGG TTGTTTGGTGGTTGAAGATCCTGTCCATGGCATTCATCTAGAAACATTTACACA AGCC		VFGLAVVVGEAGQSNIAPQPVGY AAGLKGAQERIDSLRRTGVIHEK QTAVSVENFIAELLPDKWFDIGC LVVEDPVHGIHLETFTQA
Human SOCS3_v1	9	prey2128	493	GGCCCAGAAAGCAAGGAAGGAGATTGCTGACTATCTGGCTGCTGGGAAAGATGA ACGAGCTCGGATCCGTGTGGAGCACATTATCCGGGAAGACTACCTCGTGGAGGC CATGGAGATCCTGGAGCTGTACTGTGACCTGCTGCTGGCTCGGTTTGGCCTTAT CCAGTCTATGAAGGAACTAGATTCTGGTCTGGCTGAATCTGTGTCTACATTGAT CTGGGCTGCTCCTCGACTCCAGTCAGAAGTGGCTGAGTTGAAAATAGTTGCTGA TCAGCTCTGTGCCAAGTATAGCAAGGAATATGGCAAGCTATGTAGGACCAACCA GATTGGAACTGTGAATGACAGGCTAATGCACAAGCTGAGTGTGGAAGCCCCACC CAAAATCCTGGTGGAGAGATACCTGATTGAAATTGCAAAGAATTACAACGTACC CTATGAACCTGACTCTGTGGTCATGGCAGAAGCTCCTCCTGGGGTAGAGACAGA TCTTATTGATGTTGGATTCACAGATGATGTGAAGAAAGGAGGCCCTGGAAGAGG AGGGAGTGGTGGCTTCACAGC	1231	AQKARKEIADYLAAGKDERARIR VEHIIREDYLVEAMEILELYCDL LLARFGLIQSMKELDSGLAESVS TLIWAAPRLQSEVAELKIVADQL CAKYSKEYGKLCRTNQIGTVNDR LMHKLSVEAPPKILVERYLIEIA KNYNVPYEPDSVVMAEAPPGVET DLIDVGFTDDVKKGGPGRGGSGG FT
Human SOCS3_v1	9	prey97403	494	CAGGAACCTGGGCATCCCTCTGGGCCAGGACGCCGAGGAGAAAATTTTTACTAC TGGAGATGTCAACAAAGATGGGAAGCTGGATTTTGAAGAATTTATGAAGTACCT TAAAGACCATGAGAAGAAAATGAAATTGGCATTTAAGAGTTTAGACAAAAATAA TGATGGAAAAATTGAGGCTTCAGAAATTGTCCAGTCTCTCCAGACACTGGGTCT GACTATTTCTGAACAACAAGCAGAGTTGATTCTTCAAAGCATTGATGTTGATGG GACAATGACAGTGGACTGGAATGAATGGAGAGACTACTTCTTATTTAATCCTGT TACAGACATTGAGGAAATTATCCGTTTCTGGAAACATTCTACAGGAATTGACAT AGGGGATAGCTTAACTATTCCAGATGAATTCACGGAAGACG	1232	RNLGIPLGQDAEEKIFTTGDVNK DGKLDFEEFMKYLKDHEKKMKLA FKSLDKNNDGKIEASEIVQSLQT LGLTISEQQAELILQSIDVDGTM TVDWNEWRDYFLFNPVTDIEEII RFWKHSTGIDIGDSLTIPDEFTE D
Human SOCS3_v1	9	prey97406	495	CGAGGCCGGGTCTCACACCCTCCAGAGGATGTACGGCTGCGACCTGGGGCCCGA CGGGCGCCTCCTCCGCGGGTATGACCAGTCCGCCTACGACGGCAAGGATTACAT CGCCCTGAACGAGGACCTGCGCTCCTGGACCGCCGCGGACACAGCGGCTCAGAT CACCCAGCGCAAGTGGGAGGCGGCCCGTGAGGCGGAGCAGTGGAGAGCCTACCT GGAGGGCGAGTGCGTGGAGTGGCTCCGCAGATACCTGGAGAACGGGAAGGAGAC GCTGCAGCGCGCGGAACACCCAAAGACACACGTGACCCACCATCCCGTCTCTGA CCATGAGGCCACCCTGAGGTGCTGGGCCCTGGGCTTCTACCCTACGGAGATCAC ACTGACCTGGCAGCGGGATGGCGAGGACCAAACTCAGGAC	1233	EAGSHTLQRMYGCDLGPDGRLLR GYDQSAYDGKDYIALNEDLRSWT AADTAAQITQRKWEAAREAEQWR AYLEGECVEWLRRYLENGKETLQ RAEHPKTHVTHHPVSDHEATLRC WALGFYPTEITLTWQRDGEDQTQ D
Human SOCS3_v1	9	prey97416	496	ATGTGGGGGCTCAAGGTTCTGCTGCTACCTGTGGTGAGCTTTGCTCTGTACCCT GAGGAGATACTGGACACCCACTGGGAGCTATGGAAGAAGACCCACAGGAAGCAA TATAACAACAAGGTGGATGAAATCTCTCGGCGTTTAATTTGGGAAAAAAACCTG AAGTATATTTCCATCCATAACCTTGAGGCTTCTCTTGGTGTCCATACATATGAA	1234	MWGLKVLLLPVVSFALYPEEILD THWELWKKTHRKQYNNKVDEISR RLIWEKNLKYISIHNLEASLGVH TYELAMNHLGDMTSEEVVQKMTG

				CTGGCTATGAACCACCTGGGGGACATGACCAGTGAAGAGGTGGTTCAGAAGATGACTGGACTCAAAGTACCCCTGTCTCATTCCCGCAGTAATGACACCCTTTATATCCCAGAATGGGAAGGTAGAGCCCCAGACTCTGTCGACTATCGAAAGAAAGGATATGTTACTCCTGTCAAAAATCAGGGTCAGTGTGGTTCCTGTTGGGCTTTTAGCTCTGTGGGTGCCCTGGAGGGCCAACTCAAGAAGAAAACTGGCAAACTCTTAAATCTGAGTCCCCAGAACCTAGTGGATTGTGTGTCTGAGAATGATGGCTGTGGAGGGGGCTACATGACCAATGCCTTCCAATATGTGCAGAAGAACCGGGGTATTGACTCTGAAGATGCCTACCCATATGTGGGACAGGAAGAGAGTTGTATGTACA		LKVPLSHSRSNDTLYIPEWEGRAPDSVDYRKKGYVTPVKNQGQCGSCWAFSSVGALEGQLKKKTGKLLNLSPQNLVDCVSENDGCGGYMTNAFQYVQKNRGIDSEDAYPYVGQEESCMY
Human SOCS3_v1	9	prey20209	497	CGAAAACGGAAGCATCCAGCCCTACCCAGATGGAGGGCCAGTGCCTTCGGAAATGGATGTTCCCCCAGCTCATCCTGAAGAAGAAATTGTTCTTCGAAGTTACCCTGCTTCAGGTCACACTACACCCTTAAGTCGAGGGACGTATGAGGTGGGACTGGAAGACAACATAGGTTCCAACACCGAGGTCTTCACGTATAATGCTGCCAACAAGGAAACCTGTGAACACAACCACAGACAATGCTCCCGGCATGCCTTCTGCACGGACTATGCCACTGGCTTCTGCTGCCACTGCCAATCCAAGTTTTATGGAAATGGGAAGCACTGTCTGCCTGAGGGGGCACCTCACCGAGTGAATGGGAAAGTGAGTGGCCACCTCCACGTGGGCCATACACCCGTGCACTTCACTGATGTGGACCTGCATGCGTATATCGTGGGCAATGATGGCAGAGCCTACACGGCCATCAGCCACATCCCACAGCCAGCAGCCCAGGCCCTCCTCCCCCTCACACCAATTGGAGGCCTGTTTGGCTGGCTCTTTGCTTTAGAAAAACCTGGCTCTGAGAACGGCTTCAGCCTCGCAGGTGCTGCCTTTACCCATGACATGGAAGTTACATTCTACCCGGGAGAGGAGACGGTTCGTATCACTCAAACTGCTGAGGGACTTGACCCAGAGAACTACCTGAGCATTAAGACCAACATTCAAGGCCAGGTGCCTTACGTCCCAGCAAATTTCACAGCCC	1235	ENGSIQPYPDGGPVPSEMDVPPAHPEEEIVLRSYPASGHTTPLSRGTYEVGLEDNIGSNTEVFTYNAANKETCEHNHRQCSRHAFCTDYATGFCCHCQSKFYGNGKHCLPEGAPHRVNGKVSGHLHVGHTPVHFTDVDLHAYIVGNDGRAYTAISHIPQPAAQALLPLTPIGGLFGWLFALEKPGSENGFSLAGAAFTHDMEVTFYPGEETVRITQTAEGLDPENYLSIKTNIQGQVPYVPANFTA
Human SOCS3_v1	9	prey7688	498	GGTGGACAATGGAGATGGCACACACACAGTAACCTACACCCCATCTCAGGAGGGACCTTACATGGTCTCAGTTAAATATGCTGATGAAGAGATTCCTCGCAGTCCCTTCAAGGTCAAGGTCCTTCCCACATATGATGCCAGCAAAGTGACTGCCAGTGGCCCCGGCCTTAGTTCCTATGGTGTGCCTGCCAGTCTACCTGTGGACTTTGCAATTGATGCCCGAGATGCCGGGGAAGGCCTGCTTGCTGTTCAAATAACGGACCAAGAAGGAAAACCCAAAAGAGCCATTGTCCATGACAATAAAGATGGCACGTATGCTGTCACCTACATCCCCGACAAGACTGGGCGCTATATGATTGGAGTCACCTACGGGGGTGACGACATCCCACTTTCTCCTTATCGCATCCGAGCCACACAGACGGGTGATGCCAGCAAGTGCCTGGCCACGGGTCCTGGAATCGCCTCCACTGTGAAAACTGGCGAAGAAGTAGGCTTTGTGGTTGATGCCAAGACTGCCGGGAAGGGTAAAGTGACCTGCACGGTTCTGACCCCAGATGGCACTGAGGCCGAGGCCGATGTCATTGAGAATGAAGATGGAACCTATGACATCTTCTACACAGCTG	1236	VDNGDGTHTVTYTPSQEGPYMVSVKYADEEIPRSPFKVKVLPTYDASKVTASGPGLSSYGVPASLPVDFAIDARDAGEGLLAVQITDQEGKPKRAIVHDNKDGTYAVTYIPDKTGRYMIGVTYGGDDIPLSPYRIRATQTGDASKCLATGPGIASTVKTGEEVGFVVDAKTAGKGKVTCTVLTPDGTEAEADVIENEDGTYDIFYTA
Human SOCS3_v1	9	prey12054	499	GGGGGATAAAGAATTGAACATCATTAGCTATTCCCTGCTGGTTTCAGTCCTGGAATACCAGACAGCTGTCATGCGGAGGGACTTTAGCATGGCTGATAAGGTCCTTCCTACCATTCCAAAAGAACAGAGGACCAGAGTTGCACACTTTTTGGAAAAGCAGGGCTTCAAGCAGCAAGCTCTTACAGTATCCACAGATCCTGAGCATCGTTTTGAGCTTGCTCTTCAGCTTGGAGAGTTAAAAATTGCATACCAGTTAGCAGTGGAAGCAGA	1237	GDKELNIISYSLLVSVLEYQTAVMRRDFSMADKVLPTIPKEQRTRVAHFLEKQGFKQQALTVSTDPEHRFELALQLGELKIAYQLAVEAESEQKWKQLAELAISKCQFGLAQECL

				GTCAGAACAGAAGTGGAAACAACTTGCTGAACTTGCCATTAGTAAATGTCAGTTTGGCCTAGCCCAGGAGTGCCTGCATCATGCACAGGATTATGGGGGCCTGCTGCTTTTGGCCACTGCCTCTGGAAATGCTAATATGGTGAACAAGCTAGCAGAGGGTGCGGAGAGAGATGGCAAAAATAATGTGGCATTCATGAGCTACTTTTTACAGGGCAAGGTTGATGCCTGCCTAGAGCTCTTAATTAGAACTGGACGGCTGCCAGAAGCTGCCTTCTTGGCCCGAACTTACTTACCCAGTCAGGTTTCAAGGGTAGTGAAACTCTGGAGAGAGAATCTCTCAAAAGTCAATCAGAAAGCAGCAGAATCCCTTGCTGACCCAACAGAGTATGAAAACCTGTTCCCTGGATTAAAAGAAGCCTTTGTTGTTGAAGAATGGGTGAAGGAAACACATGCTGATCTG		HHAQDYGGLLLLATASGNANMVNKLAEGAERDGKNNVAFMSYFLQGKVDACLELLIRTGRLPEAAFLARTYLPSQVSRVVKLWRENLSKVNQKAAESLADPTEYENLFPGLKEAFVVEEWVKETHADL
Human SOCS3_v1	9	prey51967	500	TGACCAACTTGTGTTGATATTTGCTGGAAAAATTTTGAAAGATCAAGATACCTTGAGTCAGCATGGAATTCATGATGGACTTACTGTTCACCTTGTCATTAAAACACAAAACAGGCCTCAGGATCATTCAGCTCAGCAAACAAATACAGCTGGAAGCAATGTTACTACATCATCAACTCCTAATAGTAACTCTACATCTGGTTCTGCTACTAGCAACCCTTTTGGTTTAGGTGGCCTTGGGGGACTTGCAGGTCTGAGTAGCTTGGGTTTGAATACTACCAACTTCTCTGAACTACAGAGTCAGATGCAGCGACAACTTTTGTCTAACCCTGAAATGATGGTCCAGATCATGGAAAATCCCTTTGTTCAGAGCATGCTCTCAAATCCTGACCTGATGAGACAGTTAATTATGGCCAATCCACAAATGCAGCAGTTGATACAGAGAAATCCAGAAATTAGTCATATGTTGAATAATCCAGATATAATGAGACAAACGTTGGAACTTGCCAGGAATCCAGCAATGATGCAGGAGATGATGAGGAACCAGGACCGAGCTTTGAGCAACCTAGAAAGCATCCCAGGGGGATATAATGCTTTAAGGCGCATGTACACAGATATTCAGGAACCAATGCTGAGTGCTGCACAAGAGCAGTTTGGTGGTAATCCATTTGCTTCCTTGGTGAGCAATACATCCTCTGGTGAAGGTAGTCAACCTTCCCGTACAGAAAATAGAGATCCACTACCCAATCCATGGGCTCCACAGACTTCCCAGAGTTCATCAGCTTCCAG	1238	DQLVLIFAGKILKDQDTLSQHGIHDGLTVHLVIKTQNRPQDHSAQQTNTAGSNVTTSSTPNSNSTSGSATSNPFGLGGLGGLAGLSSLGLNTTNFSELQSQMQRQLLSNPEMMVQIMENPFVQSMLSNPDLMRQLIMANPQMQQLIQRNPEISHMLNNPDIMRQTLELARNPAMMQEMMRNQDRALSNLESIPGGYNALRRMYTDIQEPMLSAAQEQFGGNPFASLVSNTSSGEGSQPSRTENRDPLPNPWAPQTSQSSSAS
Human SOCS3_v1	9	prey1922	501	CACTCAGATGCCACCGGTGCCCTCGCCCTCACAGCCTCCTTCTGGCAAACCTGTGTCTGCAGTAAAACCCACTGTTGCCCCACCACTAGCTGAGCCAGGAGCTGGCAAAGGTCTGCGTTCAGAACATCGGGAGAAAATGAACAGGATGCGGCAGCGCATTGCTCAGCGTCTGAAGGAGGCCCAGAATACATGTGCAATGCTGACAACTTTTAATGAGATTGACATGAGTAACATCCAGGAGATGAGGGCTCGGCACAAAGAGGCTTTTTTGAAGAAACATAACCTCAAACTAGGCTTCATGTCGGCATTTGTGAAGGCCTCAGCCTTTGCCTTGCAGGAACAGCCTGTTGTAAATGCAGTGATTGACGACACAACCAAAGAGGTGGTGTATAGGGATTATATTGACATCAGTGTTGCAGTGGCCACCCCACGGGGTCTGGTGGTTCCAGTCATCAGGAATGTGGAAGCTATGAATTTTGCAGATATTGAACGGACCATCACTGAACTGGGAGAGAAGGCCCGAAAGAATGAACTTGCCATTGAAGATATGGATGGCGGTACCTTCACCATTAGCAATGGAGGCGTTTTTGGCTCGCTCTTTGGAAC	1239	TQMPPVPSPSQPPSGKPVSAVKPTVAPPLAEPGAGKGLRSEHREKMNRMRQRIAQRLKEAQNTCAMLTTFNEIDMSNIQEMRARHKEAFLKKHNLKLGFMSAFVKASAFALQEQPVVNAVIDDTTKEVVYRDYIDISVAVATPRGLVVPVIRNVEAMNFADIERTITELGEKARKNELAIEDMDGGTFTISNGGVFGSLFG
Human SOCS3_v1	9	prey97437	502	NNCTTCCTTGAGNGANCCNANCNNCACGTGTGCCTGCGNTNTTTTCTGTNNTACACTGACAGGATTTACNTGATCTGCTGACGCCTNNNAANTNGGTTNCTAAACTAGNTTATNTTNTNATTCTTTNGNCANNNATTTACTANAGNCATCTCACTAACGGTA	1240	XFLEXXXXHVCLRXFLXYTDRIYXIC*RLXXXXLN*XXXXFFXXXFTXXISLTVWQFVXSSFTGYXATE

				TGGCAATTTGTTTTNTCCTCGTTCACCGGATACNCTGCNACTGAACAAAGCCCTTGCTTCNGTGCTNTGATTCTCAATAGGAGAAAGTNCACNACTAANCAGGGTGATNGGANNACT		QSPCFXAXILNRRKXTTXQGDXXT
Human SOCS3_v1	9	prey97445	503	CTCAGTCATCCACCTGCCCTTCATCATCGTCAACACCAGCAAGAAGACGGTCATCGACTGCAGCATCTCCAATGACAAATTTGAGTATCTGTTTAATTTTGACAACACATTTGAAATCCACGATGACATAGAAGTGCTGAAGCGGATGGGCATGGCTTGCGGGCTGGAGTCGGGGAGCTGCTCTGCCGAAGACCTTAAAATGGCCAGAAGTCTGGTCCCCAAGGCTCTGGAGCCATACGTGACAGAAATGGCTCAGGGAACTGTTGGAGGCGTGTTCATCACGACGGCAGGTTCCACGTCTAACGGCACAAGGTTCTCTGCCAGTGACCTGACCAACGGTGCAGATGGGATGCTGGCCACAAGCTCCAATGGGTCTCAGTACAGCGGCTCCAGGGTGGAGACTCCGGTGTCCTACGTCGGGGAGGACGACGAGGAGGACGATGACTTCAACGAGAA	1241	SVIHLPFIIVNTSKKTVIDCSISNDKFEYLFNFDNTFEIHDDIEVLKRMGMACGLESGSCSAEDLKMARSLVPKALEPYVTEMAQGTVGGVFITTAGSTSNGTRFSASDLTNGADGMLATSSNGSQYSGSRVETPVSYVGEDDEEDDDFNE
Human SOCS3_v1	9	prey97455	504	GGAGAAAATGACTCAAATTATGTTTGAGACTTTCAATGTCCCAGCCATGTATGTGGCTATCCAGGCGGTGCTGTCTCTCTATGCCTCTGGACGCACAACTGGCATCGTGCTGGACTCTGGAGATGGTGTCACCCACAATGTCCCCATCTATGAGGGCTATGCCTTGCCCCATGCCATCATGCGTCTGGATCTGGCTGGCCGAGATCTCACTGACTACCTCATGAAGATCCTGACTGAGCGTGGCTATTCCTTCGTTACTACTGCTGAGCGTGAGATTGTCCGGGACATCAAGGAGAAACTGTGTTATGTAGCTCTGGACTTTGAAAATGAGATGGCCACTGCCGCATCCTCATCCTCCCTTGAGAAGAGTTACGAGTTGCCTGATGGGCAAGTGATCACCATCGGAAATGAACGTTTCCGCTGCCCAGAGACCCTGTTCCAGCCATCCTTCATCGGGATGGAGTCTGCTGGCATCCATGAAACCACCTACAACAGCATCATGAAGTGTGATATTGACATCAGGAAGGACCTCTATGCTAACAATGTCCTATCAGGGG	1242	EKMTQIMFETFNVPAMYVAIQAVLSLYASGRTTGIVLDSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYLMKILTERGYSFVTTAEREIVRDIKEKLCYVALDFENEMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQPSFIGMESAGIHETTYNSIMKCDIDIRKDLYANNVLSG
Human SOCS3_v1	9	prey2109	505	TAAGGATCACCATTACTTTAAGTACTGCAAAATCTCAGCATTGGCTCTTCTGAAGATGGTGATGCATGCCAGATCGGGAGGCAATTTGGAAGTGATGGGTCTGATGCTAGGAAAGGTGGATGGTGAAACCATGATCATTATGGACAGTTTTGCTTTGCCTGTGGAGGGCACTGAAACCCGAGTAAATGCTCAGGCTGCTGCATATGAATACATGGCTGCATACATAGAAAATGCAAAACAGGTTGGCCGCCTTGAAAATGCAATCGGGTGGTATCATAGCCACCCTGGCTATGGCTGCTGGCTTTCTGGGATTGATGTTAGTACTCAGATGCTCAATCAGCAGTTCCAGGAACCATTTGTAGCAGTGGTGATTGATCCAACAAGAACAATATCCGCAGGGAAAGTGAATCTTGGCGCCTTTAGGACATACCCAAAGGGCTACAAACCTCCTGATGAAGGACCTTCTGAGTACCAGACTATTCCACTTAATAAAATAGAAGATTTTGGTGTACACTGCAAACAATATTATGCCTTAGAAGTCTCATATTTCAAATCCTCTTTGGATCGCAAATTGCTTGAGCTGTTGTGGAATAAATACTGGGTGAATACGTTGAGTTCTTCTAGCTTGCTTACTAATGCAGACTATACCACTGGTCA	1243	KDHHYFKYCKISALALLKMVMHARSGGNLEVMGLMLGKVDGETMIIMDSFALPVEGTETRVNAQAAAYEYMAAYIENAKQVGRLENAIGWYHSHPGYGCWLSGIDVSTQMLNQQFQEPFVAVVIDPTRTISAGKVNLGAFRTYPKGYKPPDEGPSEYQTIPLNKIEDFGVHCKQYYALEVSYFKSSLDRKLLELLWNKYWVNTLSSSSLLTNADYTTG
Human SOCS3_v1	9	prey69193	506	AGAGTATTTAACTAGCACTGCTTGTCGGAGGAACTTGACTGGAGATGTGTGTGCTGTGATGAGGGTCCATGCCGGGGGAGAGCAGTGGGGACTCGTTAATTACCAAGTTGACCCGGAAAGTAGACCCATGGCAATGGACCTCCTCCTACTCCTCATTTTAA	1244	EYLTSTACRRNLTGDVCAVMRVHAGGEQWGLVNYQVDPESRPMAMGPPPTPHFNVLADTPLACASDLRS

				TGTATTAGCTGATACCCCTCTGGCTTGTGCCTCTGATCTTCGATCACCTCAGGT TCCTGCTGCTCAACAGATGCTAAATTTTCCTGAGAAAAACAAGGAAAAACCAGT TGATTTGCAGAACTTTGGTCTCCGTACTGACATTTACTCCAAGAAAACATTAGC AAAGAGTAAAGGTGCTAGTGCTGGAAGAGGATGGACTGAACAGGAGACCCTTCT ACTCCTGGAGGCCCTGGAGATGTACAAGGATGATTGGAACAAAGTGTCGGAACA TGTTGGAAGTCGTACTCAGGATGAATGCATCCTCCACTTTTTGAGACTTCCCAT TGAGGACCCATACCTTGAGAATTCAGATGCTTCCCTTGGGCCTTTGGCCTACCA GCCTGTCCCCTTCAGTCAGTCAGGAAATCCAGTTATGAGTACTGTTGCTTTTTT GGCATCTGTGGTGGACCCTCGCGTGG		PQVPAAQQMLNFPEKNKEKPVDL QNFGLRTDIYSKKTLAKSKGASA GRGWTEQETLLLLEALEMYKDDW NKVSEHVGSRTQDECILHFLRLP IEDPYLENSDASLGPLAYQPVPF SQSGNPVMSTVAFLASVVDPRV
Human SOCS3_v1	9	prey97465	507	CTCCTCACTTTGGGACCCAGCTTCTCCTGCTCCCACCTCTGGCCCCAGGCCTCG GCTTTGGGAGGGTCAAGATGTGCTGGCCAGATGGACTGATGGGCTGCTATACTT GGGTACCATCAAAAAGGTGGACAGTGCTAGGGAGGTGTGTCTGGTCCAGTTTGA GGATGATTCGCAGTTTCTGGTTCTATGGAAAGACATTAGCCCTGCTGCCCTCCC TGGAGAGGAACTCCTCTGTTGTGTCTGTCGCTCTGAGACTGTGGTCCCTGGGAA CCGGCTGGTCAGCTGTGAGAAGTGTCGCCATGCTTATCACCAGGACTGCCATGT TCCCAGGGCTCCAGCCCCTGGAGAGGGAGAGGGCACATCCTGGGTATGCCGCCA GTGTGTCTTTGCGATCGCCACCAAGAGGGGAGGTGCCCTGAAGAAGGGCCCCTA TGCCCGGGCCATGCTGGGTATGAAGCTTTCTCTGCCATATGGACTGAAGGGGCT GGACTGGGATGCTGGACATCTGAGCAACCGACAGCAGAGTTACTGTTACTGTGG TGGCCCTGGGGAGTGGAACCTGAAAATGCTGCAGTGCCGGAGCTGCCTGCAGTG GTTCCATGAGG	1245	SSLWDPASPAPTSGPRPRLWEGQ DVLARWTDGLLYLGTIKKVDSAR EVCLVQFEDDSQFLVLWKDISPA ALPGEELLCCVCRSETVVPGNRL VSCEKCRHAYHQDCHVPRAPAPG EGEGTSWVCRQCVFAIATKRGGA LKKGPYARAMLGMKLSLPYGLKG LDWDAGHLSNRQQSYCYCGGPGE WNLKMLQCRSCLQWFHE
Human hGIT1_v1	10	prey33085	508	TTGGNNNTNACAGGANGNGGAACACTCGTAGNTCCCGTNNAGACGCNGTCNNTN NNTCCTAGGCTNTNGATNGCGCTGTGNGGTACTNCNGCGCTAATAGGAAGGGAA TAGGTTAGNTAAGTTTCTTTANATNTANTTCTANCCTGNATGATTTAATCTTCG TGGCAAGAATNCTNGTNCNANNNTTNANNGTTACCAGTNTGGGNTTCNGTTCGG CAACAGTCTTGGAATCACATTGTTTTNTGTCATGTACANCTCTNGACNACNNAN GTCGNATGTTGACGNCCNAGTCGATGGNGTNGNTTGCCNTGAATTGCACATNCC NTNCGT	1246	LXXTGXGTLVXPVXTXSXXPRLX XALXGTXALIGRE*VX*VSLXXX LXXMI*SSWQEXXXXXXXLPVWX SVRQQSWNHIVXCHVXLXTTXVX C*RPSRWXXLP*IAHXXR
Human hGIT1_v1	10	prey33080	509	GGACAAGCAGTCTGGTTCGCCAGAAAGCCGAGTAGAAAACACACTGAACATACA TGAAGATTTAGATAAAGTTAAACTCATTGAATATTACCTGACTAAGAACAAAGA AGGGCCACAGGTATCTGAAAATTTGCAGAAAACAGAATTAAGTGATGGAAAAAG TATTGAACCAGGGGGAATAGACATTACCCTTAGTAGTTCTCTTTCCCAGGCGGG TGATCCCATAACTGAGGGCAATAAAGAGCCAGATAAGACCTGGGTGAAAAAGGG AGAGCCCCTCCCGGTAAAACTGAACTCTTCTACAGAAGCAAATGTGATTAAAGA GGCTCTAGACTCCTCTTTGGAATCTACTCTGGACAACAGCTGTCAAGGTGCACA AATGGATAATAAATCTGAAGTTCAGTTGTGGCTGTTAAAGAGAATTCAGGTACC CATTGAAGATATACTTCCTTCAAAAAAAAAAAAAAAAAA	1247	TSSLVRQKAE*KTH*TYMKI*IK LNSLNIT*LRTKKGHRYLKICRK QN*VMEKVLNQGE*TLPLVVLFP RRVIP*LRAIKSQIRPG*KRESP SR*N*TLLQKQM*LKRL*TPLWN LLWTTAVKVHKWIINLKFSCGC* REFRYPLKIYFLQKKKKK
Human hGIT1_v1	10	prey33086	510	ACACACAGGCCTTCTGTCCACGCCCACCTTACCTGTTGCTTCCCAGAAGAGGAA GCGGGAAGAGGAAAAAGACTCCAGCTCAAAGTCCAAGAAAAAGAAAATGATCTC	1248	HTGLLSTPTLPVASQKRKREEEK DSSSKSKKKKMISTTSKETKKDT

				TACTACCTCAAAGGAAACTAAGAAGGACACAAAGCTTTACTGTATCTGTAAAAC GCCTTATGATGAATCTAAATTTTATATTGGCTGTGATCGGTGTCAGAATTGGTA CCATGGGCGCTGCGTTGGCATCTTGCAAAGTGAGGCAGAGCTCATTGATGAGTA TGTCTGTCCACAGTGCCAGTCAACAGAGGATGCCATGACAGTGCTCACGCCACT AACAGAGAAGGATTATGAGGGGTTGAAGAGGGTGCTCCGTTCCTTACAGGCCCA TAAGATGGCCTGGCCTTTCCTTGAACCAGTAGACCCTAATGATGCACCAGATTA TTATGGTGTTATTAAGGAACCTATGGACCTTGCCACCATGGAAGAAAGAGTACA AAGACGATATTATGAAAAGCTGACGGAATTTGTGGCAGATATGACCAAAATTTT TGATAACTGTCGTTACTACAATCCAAGTGACTCC		KLYCICKTPYDESKFYIGCDRCQ NWYHGRCVGILQSEAELIDEYVC PQCQSTEDAMTVLTPLTEKDYEG LKRVLRSLQAHKMAWPFLEPVDP NDAPDYYGVIKEPMDLATMEERV QRRYYEKLTEFVADMTKIFDNCR YYNPSDS
Human hGIT1_v1	10	prey33089	511	AGGAAGGGGAAGAAGAAGAACCACCTGCACAAGGAGGAGGAAAGGAAATGGATG AGGAAGAACTGCTTAATGGTGATGATGCCGAGGACTTCCTATTGGGCTTAGATC ACGTGGCTGACGATTTTGTAGCAGTCAGACCTGCAGATTATGAAAGCATCCATG ATCGGCTGCAGATGGAAAGAGAAATGCTCTTCATACCCAGTAGGCAGACAGTCC CTACATATAAAAAGCTTCCTGAGAATGTACAGCCCAGGTTCCTGGAAGATGAAG GCCTTTACACCGGGGTAAGACCAGAGGTGGCACGCACCAATCAGAACATCATGG AGAACAGATTGCTGATGCAGGACCCCGAAAGAAGATGGTTTGGAGATGACGGCA GGATCCTAGCTCTGCCAAACCCCATCAAGCCATTTCCTTCAAGGCCGCCAGTAC TAACACAGGAGCAGAGCATTAAGGCAGAGCTTGAAACACTGTATAAAAAGGCTG TAAAATACGTTCACAGTAGTCAGCATGTGATCAGATCTGGAGACCCTCCTGGAA ATTTCCAACTGGACATTGATATTTCAGGGTTAATCTTCACTCATCATCCCTGTT TTAGCCGAGAGCATGTTTTGGCAGCCAAGCTGGCCCAGTTATATGACCAGTACC TTGCAAG	1249	EGEEEEPPAQGGGKEMDEEELLN GDDAEDFLLGLDHVADDFVAVRP ADYESIHDRLQMEREMLFIPSRQ TVPTYKKLPENVQPRFLEDEGLY T3VRPEVARTNQNIMEWRLLMQD PERRWFGDDGRILALPNPIKPFP SRPPVLTQEQSIKAELETLYKKA VKYVHSSQHVIRSGDPPGNFQLD IDISGLIFTHHPCFSREHVLAAK LAQLYDQYLA
Human hGIT1_v1	10	prey33106	512	TGGAGAGCGGCTCATGAAATCCCCACATTGCACAAACCCAGCACTTTGTGTCCA GCCACATCATATCACAGTATCAGTTAAGGAGCTTGATTTGTTTTTGGCATACTA CGTGCAGGAGCAAGATTCTGGACAATCAGGAAGTCCAAGCCACAATGATCCTGC CAAGAATCCTCCAGGTTACCTTGAGGATAGTTTTGTAAAATCTGGAGTCTTCAA TGTATCAGAACTTGTAAGAGTATCCAGAACGCCCATAACCCAGGGAACTGGAGT CAACTTCCCAATTGGAGAAATCCCAAGCCAACCATACTATCATGACATGAACTC GGGGGTCAATCTTCAGAGGTCTCTGTCTTCTCCACCAAGCAGCAAAAGACCCAA AACTATATCCATAGAYGAAAATATGGAACCAAGTCCTACAGGAGACTTTTACCC CTCTCCAAGTTCACCAGCTGCTGGAAGTCGAACATGGCACGAAAGAGATCAAGA TATGTCTTCTCCGACTACTATGAAGAAGCCTGAAAAGCCATTGTTCAGCTCTGC ATCTCCACAGGATTCTTC	1250	GERLMKSPHCTNPALCVQPHHIT VSVKELDLFLAYYVQEQDSGQSG SPSHNDPAKNPPGYLEDSFVKSG VFNVSELVRVSRTPITQGTGVNF PIGEIPSQPYYHDMNSGVNLQRS LSSPPSSKRPKTISIDENMEPSP TGDFYPSPSSPAAGSRTWHERDQ DMSSPTTMKKPEKPLFSSASPQD S
Human hGIT1_v1	10	prey33115	513	AAAAAACAGNATCCNNAGAANTACCNNCNTCNGCAGGNGCCNCGANNTGGGGNN TNAANAATCAAAACCCATCGTNGGCCCTTNCCGTTTGGTATCNATNNCNNCATT CTAACAGNCANGTNGNNCANANTTGTNGTGGGCAGNGTACGGAGCNCTTGANGA TGATATCAGTGATCTGNAAGNACGTGAAANGCANGGGNNGTNTCNTNACTNAAG GGCNAGNTCCNNNANCCAAAGNNATGTTGTGTTCAGATAACATCNCCANTCGCC CNCAGTTATATNGNANNAGGTNCAAAGNAANTCATAAGNCCNACCGGCCATCCC	1251	KKQXPXXYXXXQXPRXGXXXIKT HRXPXPFGIXXXILTXXXXXXVV GXVRSX*X*YQ*SXXT*XAXXVS XLKGXXXXPKXCCVQITSPXAXS YXXXGXKXXIXPTGHPPXXAXT

				CCANGANGGGCGTNAACTCC		
Human hGIT1_v1	10	prey33116	514	GTATANNNATATTCNGCTCTNANNAAATTGCCCCNNNACCTGTACAGGTACTNC ATCATATAGNNCAGACAGTATGAAGNTTNTTAGTAGGAAGATGATNCTGTACTA GTTCATTATAAATTCTCNAAGGCANCAACNGNGATCTCCTAATTGCCAAATGTC CTTTTAAAAAGTCTCCATCCCCTGGTTTGTGTTTTATCTTGATGCTGNTAAGTG TTGCTTGTAAAGCAACATTAAATAATGTTCTCCATGGTTCTTTTAATGCCCTCT TTTTCTTTCCGTCATTATAAATGTATTTGTATTTTCTTACCAATTTCATGACTT CAGCAGTCTCTCCTCATCAAC	1252	VXXYSALXKLPXXLYRYXII*XR QYEXX**EDDXVLVHYKFSKAXT XIS*LPNVLLKSLHPLVCVLS*C X*VLLVKQH*IMFSMVLLMPSFS FRHYKCICIFLPIS*LQQSLLIN
Human hGIT1_v1	10	prey33123	515	ATGGCCAACAAGGGTCCTTCCTATGGCATGAGCCGCGAAGTGCAGTCCAAAATC GAGAAGAAGTATGACGAGGAGCTGGAGGAGCGGCTGGTGGAGTGGATCATAGTG CAGTGTGGCCCTGATGTGGGCCGCCCAGACCGTGGGCCCTTGGGCTTCCAGGTG TGGCTGAAGAATGGCGTGATTCTGAGCAAGCTGGTGAACAGCCTGTACCCTGAT GGCTCCAAGCCGGTGAAGGTGCCCGAGAACCCACCCTCCATGGTCTTCAAGCAG ATGGAGCAGGTGGCTCAGTTCCTGAAGGCGGCTGAGGACTCTGGGGTCATCAAG ACTGACATGTTCCAGACTGTTGACCTCTTTGAAGGCAAAGACATGGCAGCAGTG CAGAGGACCCTGATGGCTTTGGGCAGCTTGGCAGTGACCAAGAATGATGGGCAC TACCGTGGAGATCCCAACTGGTTTATGAAGAAAGCGCA	1253	MANKGPSYGMSREVQSKIEKKYD EELEERLVEWIIVQCGPDVGRPD RGPLGFQVWLKNGVILSKLVNSL YPDGSKPVKVPENPPSMVFKQME QVAQFLKAAEDSGVIKTDMFQTV DLFEGKDMAAVQRTLMALGSLAV TKNDGHYRGDPNWFMKKA
Human hGIT1_v1	10	prey33135	516	ATGGAATGTCTCTACTATTTCCTGGGATTTCTGCTCCTGGCTGCAAGATTGCCA CTTGATGCCGCCAAACGATTTCATGATGTGCTGGGCAATGAAAGACCTTCTGCT TACATGAGGGAGCACAATCAATTAAATGGCTGGTCTTCTGATGAAAATGACTGG AATGAAAAACTCTACCCAGTGTGGAAGCGGGGAGACATGAGGTGGAAAAACTCC TGGAAGGGAGGCCGTGTGCAGGCGGTCCTGACCAGTGACTCACCAGCCCTCGTG GGCTCAAATATAACATTTGCGGTGAACCTGATATTCCCTAGATGCCAAAAGGAA GATGCCAATGGCAACATAGTCTATGAGAAGAACTGCAGAAATGAGGCTGGTTTA TCTGCTGATCCATATGTTTACAACTGGACAGCATGGTCAGAGGACAGTGACGGG GAAAATGGCACCGGCCAAAGCCATCATAACGTCTTCCCTGATGGGAAACCTTTT CCTCACCACCCCGGATGGAGAAGATGGAATTTCATCTACGTCTTCCACACACTT GGTCAGTATTTCCAGAAATTGGGACGATGTTCAGTGAGAGTTTCTGTGAACACA GCCAATGTGACACTTGGGCCTCAACTCATGGAAGTGACTGTCTACAGAAGACAT GGACGGGCATATGTTCCCATCGCACAAGTGAAAGATGTGTACGTGGTAACAGAT CAGATTCCTGTGTTTGTGACTATGTTCCAGAAGAACGATCGAAATTCATCCGAC GAAACCTTCCTCAAAGATCTCCCCATTATGTTTGATGTCCTGATTCATGATCCT AGCCACTTCCTCAATTATTCTACCATTAACTACAAGTGGAGCTTCGGGGATAAT ACTGGCCTGTTTGTTTCCACCAATCATACTGTGAATCACACGTATGTGCTCAAT GGAACCTTCAGCCTTAACCTCACTGTGAAAGCTGCAGCACCAGGACCTTGTCCG CCACCGCCACCACCACCCAGACCTTCAAAACCCACCCCTTCTTTAGGACCTGCT GGTGACAACCCCCTGGAGCTGAGTAGGATTCCTGATGAAAACTGCCAGATTAAC AGATATGGCCACTTTCAAGCCACCATCACAATTGTAGAGGGAATCTTAGAGGTT AACATCATCCAGATGACAGACGTCCTGATGCCGGTGCCATGGCCTGAAAGCTCC	1254	MECLYYFLGFLLLAARLPLDAAK RFHDVLGNERPSAYMREHNQLNG WSSDENDWNEKLYPVWKRGDMRW KNSWKGGRVQAVLTSDSPALVGS NITFAVNLIFPRCQKEDANGNIV YEKNCRNEAGLSADPYVYNWTAW SEDSDGENGTGQSHHNVFPDGKP FPHHPGWRRWNFIYVFHTLGQYF QKLGRCSVRVSVNTANVTLGPQL MEVTVYRRHGRAYVPIAQVKDVY VVTDQIPVFVTMFQKNDRNSSDE TFLKDLPIMFDVLIHDPSHFLNY STINYKWSFGDNTGLFVSTNHTV NHTYVLNGTFSLNLTVKAAAPGP CPPPPPPRPSKPTPSLGPAGDN PLELSRIPDENCQINRYGHFQAT ITIVEGILEVNIIQMTDVLMPVP WPESSLIDFVVTCQGSIPTEVCT IISDPTCEITQNTVCSPVDVDEM CLLTVRRTFNGSGTYCVNLTLGD DTSLALTSTLISVPDRDPASPLR MANSALISVGCLAIFVTVISLLV

				CTAATAGACTTTGTCGTGACCTGCCAAGGGAGCATTCCCACGGAGGTCTGTACCATCATTTCTGACCCCACCTGCGAGATCACCCAGAACACAGTCTGCAGCCCTGTGGATGTGGATGAGATGTGTCTGCTGACTGTGAGACGAACCTTCAATGGGTCTGGGACGTACTGTGTGAACCTCACCCTGGGGGATGACACAAGCCTGGCTCTCACGAGCACCCTGATTTCTGTTCCTGACAGAGACCCAGCCTCGCCTTTAAGGATGGCAAACAGTGCCCTGATCTCCGTTGGCTGCTTGGCCATATTTGTCACTGTGATCTCCCTCTTGGTGTACAAAAAACACAAGGAATACAACCCAATAGAAAATAGTCCTGGGAATGTGGTCAGAAGCAAAGGCCTGAGTGTCTTTCTCAACCGTGCAAAAGCCGTGTTCTTCCCGGGAAACCAGGAAAAGGATCCGCTACTCAAAAACCAAGAATTTAAAGGAGTTTCTTAA		YKKHKEYNPIENSPGNVVRSKGLSVFLNRAKAVFFPGNQEKDPLLKNQEFKGVS*
Human hGIT1_v1	10	prey33141	517	CTTCGAAGCCGAGAAAGCCCGCTGGGAGGCCGAGCGCGCCGAGTTACAGGCTCAGGTGGCCTTCCTTCAGGGAGAGAGGAAAGGGCAGGAGAATCTAAAGACGGACCTGGTGCGGCGGATCAAGATGCTAGAGTATGCGCTGAAGCAGGAAAGGGCCAAATATCATAAACTGAAGTTTGGGACAGACCTGAACCAGGGGGAGAAGAAAGCAGATGTGTCAGAACAAGTCTCCAATGGCCCCGTGGAATCGGTCACCCTGGAGAACAGCCCGTTGGTGTGGAAGGAGGGGCGGCAGCTTCTCCGACAGTACCTGGAAGAGGTGGGCTACACAGACACCATCCTCGACATGCGGTCCAAGCGCGTCCGTTCCCTGCTGGGCCGCTCGCTGGAGCTCAACGGGGCAGTGGAGCCGAGTGAAGGGGCCCCCAGGGCTCCACCAGGCCCTGCAGGGCTCAGTGGTGGGGAGTCGCTGCTGGTGAAACAGATCGAGGAGCAGATAAAGAGGAACGCG	1255	FEAEKARWEAERAELQAQVAFLQGERKGQENLKTDLVRRIKMLEYALKQERAKYHKLKFGTDLNQGEKKADVSEQVSNGPVESVTLENSPLVWKEGRQLLRQYLEEVGYTDTILDMRSKRVRSLLGRSLELNGAVEPSEGAPRAPPGPAGLSGGESLLVKQIEEQIKRNA
Human hGIT1_v1	10	prey4813	518	GCGAGGCAACATGGTTCGGGCAGCTCGAGCTTTGCTCTCTGCTGTTACCCGGTTGCTGATTTTGGCTGACATGGCAGATGTCTACAAATTACTTGTTCAGCTGAAAGTTGTGGAAGATGGTATCTTGAAGTTGAGGAATGCTGGCAATGAACAAGACTTAGGAATCCAGTATAAAGCCCTAAAACCTGAAGTGGATAAGCTGAACATTATGGCAGCCAAAAGACAACAGGAATTGAAAGATGTTGGCCATCGTGATCAGATGGCTGCAGCTAGAGGAATCCTGCAGAAGAACGTTCCGATCCTCTATACTGCATCCCAGGCATGCCTACAGCACCCTGATGTCGCAGCCTATAAGGCCAACAGGGACCTGATATACAAGCAGCTGCAGCAGGCGGTCACAGGCATTTCCAATGCAGCCCAGGCCACTGCCTCAGACGATGCCTCACAGCACCAGGGTGGAGGAGGAGGAGAACTGGCATATGCACTCAATAACTTTGACAAACAAATCATTGTGGACCCCTTGAGCTTCAGCGAGGAGCGCTTTAGGCCTTCCCTGGAGGAGCGTCTGGAAAGCATCATTAGTGGGGCTGCCTTGATGGCCGACTCGTCCTGCACGCGTGATGACCGTCGTGAGCGAATTGTGGCAGAGTG	1256	RGNMVRAARALLSAVTRLLILADMADVYKLLVQLKVVEDGILKLRNAGNEQDLGIQYKALKPEVDKLNIMAAKRQQELKDVGHRDQMAAARGILQKNVPILYTASQACLQHPDVAAYKANRDLIYKQLQQAVTGISNAAQATASDDASQHQGGGGGELAYALNNFDKQIIVDPLSFSEERFRPSLEERLESIISGAALMADSSCTRDDRRERIVAE
Human hGIT1_v1	10	prey33146	519	AGGCCTTCAGACTTAGACGGAAACTGTATATTGGAATTCCTGGACTTAAAACTTGCTGGCTACAGATCTTGGGGCTTCTCTGTCTCTAAAATTATGTGAACCAATTACTGATAATAAATCTCTTTATATCTGAGACAGATATAGATATAANTATAANTATACNGATNTATAGATNTACGATATAAATTCTATTAGTTNTGTTTNTGNTGGAGAACTGNTGGACTNGTGNCNGGATGGGTGGGTACGTANGGGGGTGGGGGGGGNTGGCTGNGNGANNCNGATNNNTNNTGGCNNCGTTGNGGGGCANCGGGNGC	1257	RPSDLDGNCILEFLDLKLAGYRSWGFSVSKIM*TNY***ISLYLRQI*I*X*XYXXIDXRYKFY*XCXXWRTXGLVXGWVGTXGGGGXAXXXXXXXAXLXGXGX

Human hGIT1_v1	10	prey8929	520	AATGGAGTTCCACAATTCTCTCCAAGACTTCATCAACTGGCTTACTCAGGCTGA ACAGACCCTAAATGTAGCTTCTCGGCCAAGTCTCATCTTGGACACAGTCTTATT TCAAATTGACGAACACAAGGTTTTTGCCAATGAAGTAAATTCTCATCGTGAGCA GATAATAGAGCTGGACAAAACTGGAACCCACCTAAAATATTTTAGTCAGAAACA AGATGTTGTTCTAATCAAGAATCTACTTATCAGTGTACAAAGTCGATGGGAAAA AGTGGTTCAACGGTTGGTAGAGAGAGGAAGATCTTTGGATGATGCAAGGAAGAG AGCCAAGCAGTTCCATGAAGCTTGGAGTAAACTTATGGAGTGGCTAGAAGAGTC AGAAAAGTCTTTGGATTCTGAACTGGAAATCGCAAATGATCCAGACAAAATAAA AACACAACTTGCACAACATAAGGAGTTTCAGAAATCACTCGGAGCCAAGCATTC TGTCTACGACACCACCAACAGGACTGGACGTTCTCTGAAGGAGAAAACCTCCCT GGCTGATGACAACCTGAAACTGGATGACATGCTGAGTGAACTCAGAGACAAATG GGATACCATATGTGGAAAATCTGTGGAAAGACAAAACAAATTGGAGGAAGCCCT GTTATTTTCTGGACAATTCACAGATGCCCTACAGGCTCTCATTGATTGGTTATA TAGAGTTGAACCCCAGCTGGCAGAAGACCAGCCTGTTCATGGAGACATTGATTT GGTGATGAATCTGATCGATAATCACAAGGCCTT	1258	MEFHNSLQDFINWLTQAEQTLNV ASRPSLILDTVLFQIDEHKVFAN EVNSHREQIIELDKTGTHLKYFS QKQDVVLIKNLLISVQSRWEKVV QRLVERGRSLDDARKRAKQFHEA WSKLMEWLEESEKSLDSELEIAN DPDKIKTQLAQHKEFQKSLGAKH SVYDTTNRTGRSLKEKTSLADDN LKLDDMLSELRDKWDTICGKSVE RQNKLEEALLFSGQFTDALQALI DWLYRVEPQLAEDQPVHGDIDLV MNLIDNHKA
Human hGIT1_v1	10	prey4377	521	GGAGGCTGCCAAGCCGCCCGAGCCTGAGAAGCCCGTGTCACCGCCGCCCATCGA GTCGAAGCACCGCAGCCTGGTGCAGATCATCTACGACGAGAACCGGAAGAAGGC TGAAGCTGCACATCGGATTCTGGAAGGCCTGGGGCCCCAGGTGGAGCTGCCGCT GTACAACCAGCCCTCCGACACCCGGCAGTATCATGAGAACATCAAAATAAACCA GGCGATGCGGAAGAAGCTAATCTTGTACTTCAAGAGGAGGAATCACGCTCGGAA ACAATGGAAGCAGAAGTTCTGCCAGCGCTATGACCAGCTCATGGAGGCCTTGGA AAAAAAGGTGGAGCGCATCGAAAACAACCCGCGCCGGCGGGCCAAGGAGAGCAA GGTGCGCGAGTACTACGAAAAGCAGTTCCCTGAGATCCGCAAGCAGCGCGAGCT GCAGGAGCGCATGCAGAGCAGGGTGGGCCAGCGGGGCAGTGGGCTGTCCATGTC GGCCGCCCGCAGCGAGCACGAGGTGTCAGAGATCATCGATGGCCTCTCAGAGCA GGAGAACCTGGAGAAGCAGATGCGCCAGCTGGCCGTGATCCCGCCCATGCTGTA CGACGCTGACCAGCAGCGCATCAAGTTCATCAACATGAACGGGCTTATGGCCGA CC	1259	EAAKPPEPEKPVSPPPIESKHRS LVQIIYDENRKKAEAAHRILEGL GPQVELPLYNQPSDTRQYHENIK INQAMRKKLILYFKRRNHARKQW KQKFCQRYDQLMEALEKKVERIE NNPRRRAKESKVREYYEKQFPEI RKQRELQERMQSRVGQRGSGLSM SAARSEHEVSEIIDGLSEQENLE KQMRQLAVIPPMLYDADQQRIKF INMNGLMAD
Human hGIT1_v1	10	prey5608	522	GAACGGCACTGGCATTAACCCTTACTGTGCTTTGATTGAAGAAGCTTATGGTCT GGATAAAATTGAGTTCTTACAGAGTCATGAAAACCAGGAGATCTACCAAAAGGC CTTTGATCTTATTGAGCATTACTTCGGGACCGAAGATGAAGACAGCAGCATTGC ACCCCAGGTTGACCTTAACCAGCAGCAGTACATCTTCCAACAGTGTGAGGCTCC TATGGAAGGTTTCCAGCTTTGA	1260	NGTGINPYCALIEEAYGLDKIEF LQSHENQEIYQKAFDLIEHYFGT EDEDSSIAPQVDLNQQQYIFQQC EAPMEGFQL*
Human hGIT1_v1	10	prey5420	523	CAAACTCAATGCCCCAGAGAATGGTTACATGAAGTGCTCCAGCGACGGTGATAA TTATGGAGCCACCTGTGAGTTCTCCTGCATCGGCGGCTATGAGCTCCAGGGTAG CCCTGCCCGAGTATGTCAATCCAACCTGGCTTGGTCTGGCACGGAGCCCACCTG TGCAGCCATGAACGTCAATGTGGGTGTCAGAACGGCAGCTGCACTTCTGGATCA GTTTTATGAGAAAAGGAGACTCCTCATTGTGTCCACACCCACAGCCCGAAACCT CCTTTACCGGCTCCAGCTAGGAATGCTGCAGCAAGCACAGTGTGGCCTTGATCT	1261	KLNAPENGYMKCSSDGDNYGATC EFSCIGGYELQGSPARVCQSNLA WSGTEPTCAAMNVNVGVRTAAAL LDQFYEKRRLLIVSTPTARNLLY RLQLGMLQQAQCGLDLRHITVVE LVGVFPTLIGRIGAKIMPPALAL

				TCGACACATCACCGTGGTGGAGCTGGTGGGTGTGTTCCCGACTCTCATTGGCAG GATAGGAGCAAAGATTATGCCTCCAGCCCTAGCGCTGCAGCTCAGGCTGTTGCT GCGAATCCCACTCTACTCCTTCAGTATGGTGCTAGTGGATAAGCATGGCATGGA CAAAGAGCGCTATGTCTCCCTGGTGATGCCTGTGGCCCTGTTCAACCTGATTGA CACTTTTCCCTTGAGAAAAGAAGAGATGGTCCTACAAGCCGAAATGAGCCAGAC C		QLRLLLRIPLYSFSMVLVDKHGM DKERYVSLVMPVALFNLIDTFPL RKEEMVLQAEMSQT
Human hGIT1_v1	10	prey33179	524	TCTGTTGCAACTAAAAAAACAGTCCAAGGCCCTGGCAACCTGCTGGATGACNTT TTTGAAAGGGAATATAAGTATGGGGGCACACANTCTATGGATGGCTTTACGTGG GATGNGCTGGNGANGATCAGGGATGNGAGGGTATGGGATCTGNATCGGCNATGC GNNGNAGNTGGNAGCGATGCTNGGGGGNGGCGNGTGCGGCCGGAGGATGGATNG GNGGGTGGGTGNGAAANGNGGGCGNGGGGTGGGGNGGGGGNGGGNNGNTNTTCG GGGGCGGGGGTTNTGGNGGCGCCGCGGGCGGNTNGNNGCGGGGGTGGNGCCGCN NTGGNGGGGGCGGGGGGGGGGGNACNCGNNNGNNCGTGGGGNGGGGNGCGTCCT GGGNC	1262	SVATKKTVQGPGNLLDDXFEREY KYGGTXSMDGFTWDXLXXIRDXR VWDLXRXCXXXGSDAXGXRVRPE DGXXGGXEXXAXGGXGXGXXSGA GVXXAPRAXXXGGGAAXXGAGGG XXXXXWGGXRPG
Human hGIT1_v1	10	prey17859	525	GTCCGCGCTCTAGGGCAGCTGTTCCACATCGCCTGCTTCACCTGCCACCAGTGT GCGCAGCAGCTCCAGGGCCAGCAGTTCTACAGTCTGGAGGGGGCGCCGTACTGC GAGGGCTGTTACACTGACACCCTGGAGAAGTGTAACACCTGCGGGGAGCCCATC ACTGACCGCATGCTGAGGGCCACGGGCAAGGCCTATCACCCGCACTGCTTCACC TGTGTGGTCTGCGCCCGCCCCCTGGAGGGCACCTCCTTCATCGTGGACCAGGCC AACCGGCCCCACTGTGTCCCCGACTACCACAAGCAGTACGCCCCGAGGTGCTCC GTCTGCTCTGAGCCCATCATGCCTGAGCCTGGCCGAGATGAGACTGTGCGAGTG GTCGCCCTGGACAAGAACTTCCACATGAAGTGTTACAAGTGTGAGGACTGCGGG AAGCCCCTGTCGATTGAGGCAGATGACAATGGCTGCTTCCCCCTGGACGGTCAC GTGCTCTGTCGGAAGTGCCACACTGCTAGAGCCCAGACCTGAGTGAGGACAGGC CCTCTTCAGACCGCAGTCCATGCCCCATTGTGGACCACCCACACTGAG	1263	VRALGQLFHIACFTCHQCAQQLQ GQQFYSLEGAPYCEGCYTDTLEK CNTCGEPITDRMLRATGKAYHPH CFTCVVCARPLEGTSFIVDQANR PHCVPDYHKQYAPRCSVCSEPIM PEPGRDETVRVVALDKNFHMKCY KCEDCGKPLSIEADDNGCFPLDG HVLCRKCHTARAQT*VRTGPLQT AVHAPLWTTHTE
Human hGIT1_v1	10	hgx153	526	GACCTCCAATATCACCAAACTAGAGCAAAAGAAGAATCCTCAGGCTGTGCTGGA TGTCCTAAAGTTCTACGACTCCAACACAGTGAAGCAGAAATATCTGAGCTTTAC TCCTCCTGAGAAAGATGGCCTTCCTTCTGGAACGCCAGCACTGAATGCCAAGGG AACAGAAGCACCCGCAGTAGTGACAGAGGAGGAGGATGATGATGAAGAGACTGC TCCTCCCGTTATTGCCCCGCGACCGGATCATACGAAATCAATTTACACACGGTC TGTAATTGACCCTGTTCCTGCACCAGTTGGTGATTCACATGTTGATGGTGCTGC CAAGTCTTTAGACAAACAGAAAAAGAAGCCTAAGATGACAGATGAAGAGATTAT GGAGAAATTAAGAACTATCGTGAGCATAGGTGACCCTAAGAAAAAATATACAAG ATATGAAAAAATTGGACAAGGGGCTTCTGGTACAGTTTTCACTGCTACTGACGT TGCACTGGGACAGGAGGTTGCTATCAAACAAATTAATTTACAGAAACAGCCAAA GAAGGAACTGATCATTAACGAGATTCTGGTGATGAAAGAATTGAAAAATCCCAA CATCGTTAACTTTTTGGACAGTTACCTGGTAGGAGATGAATTGTTTGTGGTCAT GGAATACCTTGCTGGGGGGTCACTCACTGATGTGGTAACAGAAACAGCTTGCAT GGATGAAG	1264	TSNITKLEQKKNPQAVLDVLKFY DSNTVKQKYLSFTPPEKDGLPSG TPALNAKGTEAPAVVTEEEDDDE ETAPPVIAPRPDHTKSIYTRSVI DPVPAPVGDSHVDGAAKSLDKQK KKPKMTDEEIMEKLRTIVSIGDP KKKYTRYEKIGQGASGTVFTATD VALGQEVAIKQINLQKQPKKELI INEILVMKELKNPNIVNFLDSYL VGDELFVVMEYLAGGSLTDVVTE TACMDE

Human hGIT1_v1	10	prey33183	527	GTTAATAAAGTATATGTATGGGTCCTATTTTATTCTTATGCATAGATTGTAAATAAAATGTTATTAAAATAGAGAAATCAAAGGAATGGTAAAATAGGAAAAATTTTAAACTTTAAGGTTTATTGGATAAAATTTATTATATTATTTAATTATTAAAGATTGCAGTAATACTCAAATTTCCTAAATACTCAAAAAATGTCTAAGTATTGTTTTGTAAATTTACAAAAAGGCAGTTTACAACAGCAAAAACTACATCCTCATTTGAAAACTGATTCCTTTCAAGAN	1265	VNKVYVWVLFYSYA*IVNKMLLK*RNQRNGKIGKILNFKVYWIKFIILFNY*RLQ*YSNFLNTQKMSKYCFVNLQKGSLQQQKLHPHLKTDSFQX
Human hGIT1_v1	10	prey7099	528	GTCAGTACCTGCGCTGTGGAGTGAAGTGAACCGGTATGGCCAGAACGGCGACTTCACGCGCGCTCTCAAGACCGTCAATAAGATACTACAGATCAACAAAGATGACGTAACTGCCCTGCATTGTAAAGTGGTATGCCTTATCCAGAATGGAAGTTTCAAGGAAGCTTTGAATGTCATCAATACTCACACCAAAGTGTTAGCCAATAACTCTCTCTCCTTTGAAAAGGCATATTGCGAGTACAGGCTGAACAGAATTGAGAATGCCTTGAAGACAATAGAAAGTGCCAACCAGCAGACAGACAAACTGAAGGAGCTTTATGGACAAGTGTTATACCGTTTGGAACGCTATGATGAATGCTTAGCAGTGTATAGAGATCTCGTCCGAAACTCCCAAGATGATTATGATGAGGAGAGGAAAACAAACCTTTCAGCAGTTGTTGCAGCTCAAAGCAATTGGGAAAAAGTGGTTCCAGAGAACCTGGGCCTCCAAGAAGGCACACATGAGCTGTGCTACAACACTGCATGTGCACTGATAGGCCAAGGCCAGCTGAACCAGGCCATGAAAATCCTACAAAAAGCTGAAGATCTTTGCCGCCGTTCATTATCAGAAGACACTGATGGGACTGAGGAAGACCCACAGGCAGAACTGGCCATCATTCATGGTCAGATGGCTTATATCCTGCAGCTTCAGGGTCGAACAGAGGAGGCTTTGCAACTTTACAATCAAATAATAAAACTAAAACCAACAGATGTGGGATTACTAGCTGTAATTGCAAATAACATCATTACCATTAACAAGGACCAAAATGTCTTTGACTCCAAGAAGAAAGTGAAATTAACCAATGCGGAAGGAGTAGAGTTTAAGCTTTCCAAGAAACAACTACAAGCTATAGAATTTAACAAAGCTTTACTTGCTATGTACACAAACC	1266	SVPALWSEVNRYGQNGDFTRALKTVNKILQINKDDVTALHCKVVCLIQNGSFKEALNVINTHTKVLANNSLSFEKAYCEYRLNRIENALKTIESANQQTDKLKELYGQVLYRLERYDECLAVYRDLVRNSQDDYDEERKTNLSAVVAAQSNWEKVVPENLGLQEGTHELCYNTACALIGQGQLNQAMKILQKAEDLCRRSLSEDTDGTEEDPQAELAIIHGQMAYILQLQGRTEEALQLYNQIIKLKPTDVGLLAVIANNIITINKDQNVFDSKKKVKLTNAEGVEFKLSKKQLQAIEFNKALLAMYTN
Human hGIT1_v1	10	prey4310	529	ATGGAGTTTGAGTTCAGCCAGTTCTACCTCAAGTTCCTCGGCTACCACCATGTGTCCCGCCGTTTCCGGACCTTCCTGCTCGACTCTGACTATGAGCGCATTGAGCTGGGGCTGCTGTATGAGGAGAAGGGGGAACGCAGGGGCCAGGTGCCGTGCAGGTCTGTGTGGGAGTATGTGGACCGGCTGAGCAAGAGGACGCCTGTGTTCCACAATTACATGTATGCGCCCGAGGACGCAGAGGTCCTGCGGCCCTACAGCAACGTGTCCAACCTGAAGGTGTGGGACTTCTACACTGAGGAGACGCTGGCCGAGGGCCCTCCCTATGACTGGGAACTGGCCCAGGGGCCCCCTGAACCCCCA	1267	MEFEFSQFYLKFLGYHHVSRRFRTFLLDSDYERIELGLLYEEKGERRGQVPCRSVWEYVDRLSKRTPVFHNYMYAPEDAEVLRPYSNVSNLKVWDFYTEETLAEGPPYDWELAQGPPEPP
Human hGIT1_v1	10	prey20288	530	ATGACATATGATCCATATGACAGGGAGCTTGTACCACTCTTATACTTCAGTTGTCCATACAAGACTACTTTTGAAATTGAAATCAGTAGAATGAAGGATCAAGGTCCAGATAAAGAAAATTCAGGGGCAATCGAAGCCTCAGTGAAGTTAACAGAACTCTTAGATTTGTATAGAGAAGATAGAGGTGCA	1268	MTYDPYDRELVPLLYFSCPYKTTFEIEISRMKDQGPDKENSGAIEASVKLTELLDLYREDRGA
Human hGIT1_v1	10	prey33191	531	CCGACGGACCACGGTGGCATATGTGATCAACGAAGCGAGCCAAGGGCAACTGGTGGTGGCCGAGAGCGAGGCCCTGCAGAGCTTGCGGGAGGCGTGCGAGACAGTGGGCGCCACCCTGGAAACCCTGCATTTTGGGAAACTCGACTTTGGAGAAACCACCGTGCTGGACCGCTTTTACAATGCAGATATTGCGGTGGTGGAGATGAGCGATGCCTT	1269	RRTTVAYVINEASQGQLVVAESEALQSLREACETVGATLETLHFGKLDFGETTVLDRFYNADIAVVEMSDAFRQPSLFYHLGVRESFSMANN

				CCGGCAGCCGTCCTTGTTTTACCACCTTGGGGTGAGAGAAAGTTTCAGCATGGC CAACAACATCATCCTCTACTGTGATACTAACTCGGACTCTCTGCAGTCACTGAA GGAAATAATTTGCCAGAAGAATACTATGTGCACTGGGAACTACACCTTTGTTCC TTACATGATAACTCCACATAACAAAGTCTACTGCTGTGACAGCAGCTTCATGAA GGGGTTGACAGAGCTCATGCAACCGAACTTCGAGCTGCTTCTTGGACCCATCTG CTTACCTCTTGTGGATCGTTTTATTCAACTTTTGAAGGTGGCACAAGCAAGTTC TAGCCAGTACTTCCGGGAATCTATACTCAATGACATCAGGAAAGCTCGTAATTT ATACACTGGTAAAGAATTGGCAGCTGAGTTGGCAAGAATTCGGCAGCGAGTAGA TAATATCGAAGTCTTGACAGCAGATATTGTCATAAATCTGTTACTTTCCTACAG AGATATCCAGGACTATGATTCTATTGTGAAGCTGGTAGAGACTTTAGAAAAACT GCCAACCTTTGATTTGGCCTCCCATCACCATGTGAAGTTTCATTATGCATTTGC ACTGAATAGGAGAAATCTCCCTGGTGACAGAGCAAAAGCTCTTGATATTATGAT TCCCATGGTGCAAAGCGAAGGACAAGTTGCTTCAGATATGTATTGCCTAGTTGG TCGAATCTACAAAGATATGTTTTTGGACTCTAATTTCACGGAC		IILYCDTNSDSLQSLKEIICQKN TMCTGNYTFVPYMITPHNKVYCC DSSFMKGLTELMQPNFELLLGPI CLPLVDRFIQLLKVAQASSSQYF RESILNDIRKARNLYTGKELAAE LARIRQRVDNIEVLTADIVINLL LSYRDIQDYDSIVKLVETLEKLP TFDLASHHHVKFHYAFALNRRNL PGDRAKALDIMIPMVQSEGQVAS DMYCLVGRIYKDMFLDSNFTD
Human hGIT1_v1	10	prey33198	532	GAGCTACATCGAGGGGTATGTGCCATCACAAGCAGATGTGGCAGTATTTGAAGC CGTGTCCAGCCCACCGCCTGCCGACTTGTGTCATGCCCTACGTTGGTATAATCA CATCAAGTCTTACGAAAAGGAAAAGGCCAGCCTGCCAGGAGTGAAGAAAGCTTT GGGCAAATATGGTCCTGCCGATG	1270	SYIEGYVPSQADVAVFEAVSSPP PADLCHALRWYNHIKSYEKEKAS LPGVKKALGKYGPAD
Human hGIT1_v1	10	prey33202	533	GGATTACAGTGCATCTATAAATAGTTTACTAGAGAGGTATGATACATACAGAGA TATTCTTGAACACCACCTGCAAAACAACAAATTCAGGATTACTTCTGATTTCTC TAGTGAAGAGGACAGGAGTAGTTCTTGTCTGCAGGCTAAACTGACAGATCTACA GGTCATAAAAAATGAAACTGATGCTCGCTGGAAAGAGTTTGAAATTATTTCATT GAAGTTAGAAAATCATGTGAATGACATAAAAAAGCCTTTTGTAATTAAGGAAAG AGACAC	1271	GLQCIYK*FTREV*YIQRYS*TP PAKQQIQDYF*FL**RGQE*FLS AG*TDRSTGHKK*N*CSLERV*N YFIEVRKSCE*HKKAFCN*GKRH
Human hGIT1_v1	10	prey5528	534	GGAGGACATGGGACTGGACAAAGAACAGACACTGCAGTCATTAAGATCAGATGC CTATGATCACTATAGTGCAATCTACAGCCTGCTGTGTGATCGACATAAGAGACA TAAAACCCTGCGTCTCGGAGCACTTCCTAGCATGCCCCGAGCCCTGGCCTTTCA AGCACCAGTCAATATCCAGGCGGAGCAGGCAGGTACTGCTATGAACATCAGCGT TCCCCAGGTGCAGCTGATCAACCCAGAGAACCAAATTGTGGAGCCGGATGGGAC ACTGAATTTGGACAGTGATGAGGGTGAAGAGCCTTCCCCTGAAGCATTGGTGCG CTATTTGTCAATGAGGAGGCACACAGTGGGTGTGGCTGACCCACGCACGGAAGT TATGGAAGATCTGCAGAAGCTCCTACCTGGCTTTCCTGGAGTCAACCCCCAGGC TCCATTCCTGCAGGTGGCCCCTAATGTGAACTTCATGCACAACCTGTTGCCTAT GCAAAACTTGCAACCAACCGGGCAACTTGAGTACAAGGAGCAGTCTCTCCTACA GCCGCC	1272	EDMGLDKEQTLQSLRSDAYDHYS AIYSLLCDRHKRHKTLRLGALPS MPRALAFQAPVNIQAEQAGTAMN ISVPQVQLINPENQIVEPDGTLN LDSDEGEEPSPEALVRYLSMRRH TVGVADPRTEVMEDLQKLLPGFP GVNPQAPFLQVAPNVNFMHNLLP MQNLQPTGQLEYKEQSLLQP
Human hGIT1_v1	10	prey1596	535	ATGGCACTGAAGGACTACGCGCTAGAGAAGGAAAAGGTTAAGAAGTTCTTACAA GAGTTCTACCAGGATGATGAACTCGGGAAGAAGCAGTTCAAGTATGGGAACCAG TTGGTTCGGCTGGCTCATCGGGAACAGGTGGCTCTGTATGTGGACCTGGACGAC GTAGCCGAGGATGACCCCGAGTTGGTGGACTCAATTTGTGAGAATGCCAGGCGC	1273	MALKDYALEKEKVKKFLQEFYQD DELGKKQFKYGNQLVRLAHREQV ALYVDLDDVAEDDPELVDSICEN ARRYAKLFADAVQELLPQYKERE

				TACGCGAAGCTCTTTGCTGATGCCGTACAAGAGCTGCTGCCTCAGTACAAGGAGAGGGAAGTGGTAAATAAAGATGTCCTGGACGTTTACATTGAGCATCGGCTAATGATGGAGCAGCGGAGTCGGGACCCTGGGATGGTCCGAAGCCCCCAGAACCAGTACCCTGCTGAACTCATGCGCAGATTGTGA		VVNKDVLDVYIEHRLMMEQRSRDPGMVRSPQNQYPAELMRRL*
Human hGIT1_v1	10	prey33216	536	GGAGGAGTGTGCTGCGGACACAGATATGGAGGATGGCAGCTGCGGGCAGCACCTATGCACAGGCATTGCTGGCCTAGACGTAACCCTGCGGCTCAAGATGCCGCCACAGGAGACAGCGCTGGAGAACGGGGAACCAGCTGGGTCAGCCCCAGAGACTGACCAGGGCTCTGGGCCAGACGCCGTGGGCCGGGTACAGGGCTGGGCACTGACCCGCCAGCAGCTCCAGGCCCTGCTTCTCAAGCGCTTTCTGCTTGCCCGCCG	1274	EECAADTDMEDGSCGQHLCTGIAGLDVTLRLKMPPQETALENGEPAGSAPETDQGSGPDAVGRVQGWALTRQQLQALLLKRFLLAR
Human hGIT1_v1	10	prey33221	537	GGACCTGATGAAGCTGTACGAAGGCGCCTTCCTGCCGAGTTCTCAGTGGCCCCGGCCGAAGCCTGATGGGGAGGACACAAGCGGAGAGGAAGATGCAGATGACTGTCCAGGCGACAGGGAGAGTCGCAAGGACTTGGTTCTCATCGACTCGCTTTTCATCATGGATCAGTTCAAAGCTGCCGAGAGGATGAATATCGGGAAGCCAAACGCCAAGGACATTGCGGACGTCACTGCGGTGGCTGAAGCCATCCTGCCGAAGGGCAGTGCTCGGGTCACAACCTCGGTCAAGTTTAATGCTCCATCTTTGTTGTATGGGGCTCTCAGAGATTATCAGAAGATTGGCCTGGACTGGCTGGCCAAACTTTACAGGAAGAATCTCAATGGCATATTGGCAGATGAAGCTGGGCTGGGTAAAACAGTGCAGATCATTGCTTTTTTTGCCCACCTAGCTTGTAACGAAGGTAATTGGGGCCCCCATCTTGTTGTTGTGAGAAGTTGTAACATACTCAAGTGGGAGCTTGAATTGAAACGTTGGTGTCCCGGACTCAAAATCCTCTCATATATTGGCAGCCACAGAGAACTCAAAGCAAAGAGACAGGAGTGGGCCGAACCCAACAGCTTCCACGTCTGCATCACGTCCTACACTCAGTTCTTCCGGGGCCTCACCGCCTTCACACGAGTGCGCTGGAAGTGCCTGGTCATTGATGAGATGCAGCGCGTGAAGGGCATGACCGAGAGGCACTGGGAAGCGGTTTTCACCCTGCAGAGCCAACAACGTCTGCTTCTGATCGACTCGCCGCTGCACAATACCTTCCTGGAGCTCTGGACCATGGTGCACTTCCTGGTCCCAGGGATCTCCAGGCCCTACCTGAGCTCCCCTCTGAGGGCCCCCAGTGAAGAGAGCCAGGATTACTACCATAAAGTGGTCATAAGGTTACACAGGGTGACACAGCCATTTATTTTGAGGAGAACTAAGAGAGATGTGGAAAAGCAACTAACAAAGAAATATGAGCATGTTTTGAAGTGTCG	1275	DLMKLYEGAFLPSSQWPRPKPDGEDTSGEEDADDCPGDRESRKDLVLIDSLFIMDQFKAAERMNIGKPNAKDIADVTAVAEAILPKGSARVTTSVKFNAPSLLYGALRDYQKIGLDWLAKLYRKNLNGILADEAGLGKTVQIIAFFAHLACNEGNWGPHLVVVRSCNILKWELELKRWCPGLKILSYIGSHRELKAKRQEWAEPNSFHVCITSYTQFFRGLTAFTRVRWKCLVIDEMQRVKGMTERHWEAVFTLQSQQRLLLIDSPLHNTFLELWTMVHFLVPGISRPYLSSPLRAPSEESQDYYHKVVIRLHRVTQPFILRRTKRDVEKQLTKKYEHVLKC
Human hGIT1_v1	10	prey33222	538	TTACCATCCCATTAAGTGCTGCTGATTTGGAAAGATCATGAAAAACGTCTTTCCNAAACATGAAGGCACGTCGTTTGGGCACAAGAGGCAAATCTAAATATTGCTACAGTGGACTAAGAAAAAAAGCTTTTGTTCATATGCCAACACCTGCCCAACCTTGACTTTCACAAAACTGGAGATGGGTTGGAAGGAGCTGAACCTTCTGGGCAGCTTCAAAATATTGATGAAGAAGTTATCTCTTCTGCTTGCCGTCTTGTGTGTGAGTGGGCCCAGAAAGTGTTAAGCCAACCATTTGACACCGTCTTGGAATTAGCCCGCTTCCTTGTAAAAAGTCACTATATAGGCACCAAA	1276	LPSH*VLLILERS*KTSFXNMKARRLGTRGKSKYCYSGLRKKAFVHMPTPAQP*LSQNWRWVGRS*TFWAASKY**RSYLFCLPSCV*VGPESVKPTI*HRLGISPLPCKKSLYRHQ
Human hGIT1_v1	10	prey33290	539	TCCCCGCGCCCCCATCTTTCCCTCCCTCCCTCCCACCCCTCTGCAGCGATGGCAGAGGAACAACAACAGCCGCCACCACAGCAGCCTGATGCCCATCAGCAGCTTCCCCCCAGCGCCCCCAACTNGGGGTGGCCCTGCCAGCCCTTGTGCCCGGGCTGCCA	1277	SPRPHLSLPPSHPSAAMAEEQQQPPPQQPDAHQQLPPSAPNXGVALPALVPGLPGTEASALQHKIKNCI

				GGGACAGAGGCCAGCGCGCTGCAACACAAGATCAAGAACTGCATCTGCAAAACT GTNCAATGTNAAGTGGACTGCATTTTGNAAGAAGGTGNGAAGTGTNCAGNCCTG A		CKTVQCXVDCILXEGXKCXXL
Human hGIT1_v1	10	prey7132	540	CGGGAATACACTGAACAGCTCACCACCCCTGGCTCCCGGGGAGTTCGATCCGAA CATCGACGTCTATGGAATTAAGTGCCATGAAAACTCGCCTAGGAAGGAGGTGTA CTTCATGGCAATTATTGACATCCTTACTCATTATGATGCAAAAAAGAAAGCTGC CCATGCTGCAAAAACTGTTAAACATGGCGCTGGCGCGGAGATCTCCACCGTGAA CCCAGAACAGTATTCAAAGCGCTTTTTGGACTTTATTG	1278	GNTLNSSPPLAPGEFDPNIDVYG IKCHENSPRKEVYFMAIIDILTH YDAKKKAAHAAKTVKHGAGAEIS TVNPEQYSKRFLDFI
Human hGIT1_v1	10	prey25486	541	CCCCAGCCCGGACCTGGTGTCTCAGGAAGCCACGCTGTCTGAGGCCCGGCTCAA GTCGGTGGTCGTGGCCTCCAGTGAGATCCACGTGGAGGTGGAACGCACCAGCAC TGCCAAGCCGGCGCTGACGGCCAGCGCAGGCAACGACAGCGAGCCCAACCTCAT CGACTGCCTCATGGTCAGCCCCGCCTGCAGCACCATGAGCATCGAGCTGGGCCC CCAGGCCGACCGCACGCTCGGCTGCTACGTGGAAATCCTCAAGCTGCTGTCAGA CTATGATGACTGGAGACCGTCTCTGGCCAGTTTGCTTCAACCCATTCCATTCCC CAAAGAAGCTCTCGCACATGAGAAGTTCACCAAGGAACTGAAGTACGTGATTCA GAGGTTCGCCGAA	1279	PSPDLVSQEATLSEARLKSVVVA SSEIHVEVERTSTAKPALTASAG NDSEPNLIDCLMVSPACSTMSIE LGPQADRTLGCYVEILKLLSDYD DWRPSLASLLQPIPFPKEALAHE KFTKELKYVIQRFAE
Human hGIT1_v1	10	prey5537	542	TCAGAATGGTGCAAATGTCCAAGCACGTGATGATGGGGGCCTTATTCCTCTTCA TAATGCATGCTCTTTTGGTCATGCTGAAGTAGTCAATCTCCTTTTGCGACATGG TGCAGACCCCAATGCTCGAGATAATTGGAATTATACTCCTCTCCATGAAGCTGC AATTAAAGGAAAGATTGATGTTTGCATTGTGCTGTTACAGCATGGAGCTGAGCC AACCATCCGAAATACAGATGGAAGGACAGCATTGGATTTAGCAGATCCATCTGC CAAAGCAGTGCTTACTGGTGAATATAAGAAAGATGAACTCTTAGAAAGTGCCAG GAGTGGCAATGAAGAAAAAATGATGGCTCTACTCACACCATTAAATGTCAACTG CCACGCAAGTGATGGCAGAAAGTCAACTCCATTACATTTGGCAGCAGGATATAA CAGAGTAAAGATTGTACAGCTGTTACTGCAACATGGAGCTGATGTCCATGCTAA AGATAAAGGTGATCTGGTACCATTACACAATGCCTGTTCTTATGGTCATTATGA AGTAACTGAACTTTTGGTCAAGCATGGTGCCTGTGTAAATGCAATGGACTTGTG GCAATTCACTCCTCTTCATGAGGCAGCTTCTAAGAACAGGGTTGAAGTATGTTC TCTTCTCTTAAGTTATGGTGCAGACCCAACACTGCTCAATTGTCACAATAAAAG TGCTATAGACTTGGCTCCCACACCACAGTTAAAAGAAAGATTAGCATATGAATT TAAAGGCCACTCGTTGCTGCAAGCTGCACGAGAAGCTGATGTTACTCGAATCAA AAAACATCTCTCTCTGGAAATGGTGAATTTCAAGCATCCTCAAACACATGAAAC AGCATTGCATTGTGCTGCTGCATCTCCATATCCCAAAAGAAAGCAAATATGTGA ACTGTTGCTAAGAAAAGGAGCAAACATCAATGAAAAGACTAAAGAATTCTTGAC TCCTCTGCACGTGGCATCTGAGAAAGCTCATAATGATGTTGTTGAAGTAGTGGT GAAACATGAAGCAAAGGTTAATGCTCTGGATAATCTTGGTCAGACTTCTCTACA CAGAGCTGCATATTGTGGTCATCTACAAACCTGCCGCCTAC	1280	QNGANVQARDDGGLIPLHNACSF GHAEVVNLLLRHGADPNARDNWN YTPLHEAAIKGKIDVCIVLLQHG AEPTIRNTDGRTALDLADPSAKA VLTGEYKKDELLESARSGNEEKM MALLTPLNVNCHASDGRKSTPLH LAAGYNRVKIVQLLLQHGADVHA KDKGDLVPLHNACSYGHYEVTEL LVKHGACVNAMDLWQFTPLHEAA SKNRVEVCSLLLSYGADPTLLNC HNKSAIDLAPTPQLKERLAYEFK GHSLLQAAREADVTRIKKHLSLE MVNFKHPQTHETALHCAAASPYP KRKQICELLLRKGANINEKTKEF LTPLHVASEKAHNDVVEVVVKHE AKVNALDNLGQTSLHRAAYCGHL QTCRL
Human hGIT1_v1	10	prey33226	543	CCTGGGCAGAATTCTTCCGAGTGCAGTGAATCCAGCCTGGAGAGAACGCCTTCA ACATGGTCAGTGTTGGCTCTGGCGCTTTGCAATCTCCTCCTGGATACGCAACTT	1281	PGQNSSECSESSLERTPSTWSVL ALALCNLLLDTQLEGFSHGWIQR

				GAGGGCTTCTCGCATGGGTGGATCCAGAGGCGTGTGTGCCGACACCTTCTCACT CACCTTTCCTGGGTCATCACCCTGATAGACGATAACTGATGTGACCTCTCCACT GTCTGCCTCGGATTCTAAGCAGAAGAGCTGATGGCCAGAAGGCTCCAGCTCAGA GCCTCCACTACTGCTGCTTTCACCGGACTCTTCATAGTCTG		RVCRHLLTHLSWVITLIDDN*CD LSTVCLGF*AEELMARRLQLRAS TTAAFTGLFIV
Human hGIT1_v1	10	prey33232	544	ACGTGGGAACTGCCAAACCAAACTGCACGACATCGACGGCGTACCTCACCTCAT CCTCATCGCCTCCCGAGACATCGCGGCTGGGGAGGAGCCCCTGTATGACTATGG GGACCGCAGCAAGGCTTCCATTGAAGCCCACCCATGGCTGAAGCATTAA	1282	RGNCQTKLHDIDGVPHLILIASR DIAAGEEPLYDYGDRSKASIEAH PWLKH*
Human hGIT1_v1	10	prey17072	545	GCTTACAGCAAAGGAGAAGAAGACACAGTTGGATGATAGGACAAAAATCACTGA GCTTTTTGCCGTGGCCCTTCCTCAGTTATTAGCAAAATACTCTGTAGATGCAGA AAAGGTGACTAACTTGTTGCAGTTGCCTCAGTACTTTGATTTGGAAATATATAC CACTGGACGATTAGAAAACGATTTGGATGCCTTATTGCGACAGATCCGGAATAT TGTAGAGAAGCACACAGATACAGATGTTTTGGAAGCATGTTCTAAAACTTACCA TGCACTCTGTAATGAAGAGTTCACAATCTTCAACAGAGTAGATATTTCAAGAAG TCAACTGATAGATGAATTGGCAGATAAATTTAACCGGCTTCTTGAAGATTTTCT GCAAGAGGGTGAAGAACCTGATGAAGATGATGCATATCAGGTATTGTCAACATT GAAGAGGATCACTGCTTTTCATAATGCCCATGACCTTTCAAAGAGGGATTTATT TGCTTGTAATTACAAACTCTTGAAAACTGGAATCGAAAATGGAGACATGCCTGA GCAGATTGTTATTCACGCACTGCAGTGTACTCACTATGTAATCCTTTGGCAACT TGCTAAGATAACTGAAAGCAGCTCTACAAAGGAGGACTTGCTGCGTTTAAAGAA ACAAATGAGAGTATTTTGTCAGATATGTCAACATTACCTGACCAACGTGAATAC TACTGTTAAGGAACAGGCCTTCACTATTCTGTGTGATATTTTGATGATCTTCAG CCATCAGATTATGTCAGGAGGGCGTGACATGTTAGAGCCATTAGTGTATACCCC TGATTCTTCATTGCAGTCTGAGTTGCTCAGCTTTATTTTGGATCATGTCTTCAT TGAACAGGATGATGATAATAATAGTGCAGATGGTCAGCAAGAGGATGAAGCCAG TAAAATTGAAGCTCTGCACAAGAGAAGAAATTTACTTGCAGCATTTTGTAAGCT AATTGTATATACTGTGGTGGAGATGAATACAGCTGCAGATATCTTCAAACAGTA TATGAAGTATTATAATGACTATGGAGATATCATCAAAGAAACAATGAGTAAAAC AAGGCAGATAGACAAAATTCAGTGTGCTAAGACCCTTATTCTCAGTCTGCAACA GCTTTTTAATGAAATGATACAAGAAAATGGCTATAATTTTGATAGATCATCCTC TACATTTAGTGGCATAAAAGAACTTGCTCGACGTTTTGCTTTAACTTTTGGACT TGATCAGTTGAAAACAAGAGAAGCCATTGCCATGCTACACAAAGATGGCATAGA ATTTGCTTTTAAAGAGCCTAATCCGCAAGGGGAGAGCCATCCACCTTTAAATTT GGCATTTCTTGATATTCTGAGTGAATTTTCTTCTAAACTACTTCGACAAGACAA AAGAACAGTGTATGTTTACTTGGAAAAGTTCATGACCTTTCAGATGTCACTCCG AAGAGAGGATGTGTGGCTTCCACTGATGTCTTACCGAAATTCTTTGCTAGCTGG TGGTGATGATGACACCATGTCAGTCATTAGTGGAATCAGCAGCCGGGGGTCAAC AGTACGGAGTAAAAAATCAAAACCATCTACAGGAAAACGGAAAGTGGTTGAGGG CATGCAGCTTTCACTCACTGAAGAAAGTAGTAGTAGTGACAGTATGTGGTTAAC GAGAGAACAAACACTGCAC	1283	LTAKEKKTQLDDRTKITELFAVA LPQLLAKYSVDAEKVTNLLQLPQ YFDLEIYTTGRLENDLDALLRQI RNIVEKHTDTDVLEACSKTYHAL CNEEFTIFNRVDISRSQLIDELA DKFNRLLEDFLQEGEEPDEDDAY QVLSTLKRITAFHNAHDLSKRDL FACNYKLLKTGIENGDMPEQIVI HALQCTHYVILWQLAKITESSST KEDLLRLKKQMRVFCQICQHYLT NVNTTVKEQAFTILCDILMIFSH QIMSGGRDMLEPLVYTPDSSLQS ELLSFILDHVFIEQDDDNNSADG QQEDEASKIEALHKRRNLLAAFC KLIVYTVVEMNTAADIFKQYMKY YNDYGDIIKETMSKTRQIDKIQC AKTLILSLQQLFNEMIQENGYNF DRSSSTFSGIKELARRFALTFGL DQLKTREAIAMLHKDGIEFAFKE PNPQGESHPPLNLAFLDILSEFS SKLLRQDKRTVYVYLEKFMTFQM SLRREDVWLPLMSYRNSLLAGGD DDTMSVISGISSRGSTVRSKKSK PSTGKRKVVEGMQLSLTEESSSS DSMWLTREQTLH

Human hGIT1_v1	10	prey33235	546	ATTTTNNNTGGNNTGCGGAGTGNNGTGAACCNGTAATGGTNATAANGGATAGTGNCCACTCGCTCNNTTGACCGTNAATACTTATACTANGCCAGCTCTCCNATNATTTATNTGCCCTGCTATTNTCCAAGTCGGTGATGCGCTTATNTACNATGGTATGTATCNNGGTNTCTNGTGACTGACCTTNATNCTCCNTCNTTNTTTATACCACTATCACGNTGGNTCCTTTGANGAGGCCTTTGGNTGAGCTNTNGTTGAT	1284	IXXGXRSXVNX*WX*XIVXTRSXDRXYLYXASSPXIYXPCYXPSR*CAYXXWYVSXXLVTDLXXPSXFIPLSRWXL*XGLWXSXX*
Human hGIT1_v1	10	prey3599	547	CCAAATTAGCAAGTTTAAGAAAATCTACGAAGAAACGCAGTGAGTCTCCACCTGCTGAGCTCCCCAGTTTGAGGCGGAGCACACGCCAAAAGACCACGGGCTCCTGTGCTAGTACCAGTCGGCGAGGCTCTGGCCTGGGCAAAAGAGGAGCAGCTGAAGCTCGTCGACAGGAGAAAATGGCAGACCCTGAAAGCAACCAGGAGGCAGTAAATTCTTCAGCTGCTCGGACAGATGAAGCTCCCCAAGGAGCTGCAGGGGCTGTTGGCATGACCACCTCTGGGGAGAGTGAATCAGATGATTCCGAGATGGGACGTTTGCAAGCTTTGTTAGAGGCAAGGGGTCTTCCCCCTCACCTATTTGGTCCTCTTGGTCCTCGGATGTCACAGCTTTTCCATAGAACAATTGGAAGTGGAGCTAGTTCTAACGCCCAGCAGCTACTACAAGGATTGCAAGCCAGTGATGAAAGTCAACAGCTTCAGGCAGTTATTGAGATGTGTCAGTTACTGGTCATGGGAAATGAGGAGACACTGGGAGGGTTTCCTGTCAAGAGTGTTGTTCCAGCTTTGATTACGTTACTTCAGATGGAGCACAATTTTGATATTATGAACCATGCTTGTCGAGCCTTAACATACATGATGGAAGCACTTCCTCGATCTTCTGCTGTTGTAGTAGATGCTATTCCTGTCTTTTTAGAAAAGCTGCAAGTTATTCAGTGTATTGATGTGGCAGAGCAGGCCTTGACTGCCTTGGAGATGTTG	1285	KLASLRKSTKKRSESPPAELPSLRRSTRQKTTGSCASTSRRGSGLGKRGAAEARRQEKMADPESNQEAVNSSAARTDEAPQGAAGAVGMTTSGESESDDSEMGRLQALLEARGLPPHLFGPLGPRMSQLFHRTIGSGASSKAQQLLQGLQASDESQQLQAVIEMCQLLVMGNEETLGGFPVKSVVPALITLLQMEHNFDIMNHACRALTYMMEALPRSSAVVVDAIPVFLEKLQVIQCIDVAEQALTALEML
Human hGIT1_v1	10	prey33236	548	TGAGTTATTTAATTTTTTTTCTTTTGCACATTTTTCTTGTATTAAGATTGCTCTTCCCAAGAGCCACAAGTTCCTGGTTTTAGTAAACCCAGC	1286	ELFNFFFFCTFFLY*DCSSQEPQVPGFSKPS
Human hGIT1_v1	10	prey33237	549	ATGCACCTGGCCCTCACCACTGTGCTCCTGTGGGCATGGGGGCTCCAGGCCTTTGAAATTGTGGAGAAGGAAAACATTTTTCAGAGGACCCCCTGCCCTGCTTTCCTGATGTTTGAAAATGCAGCCTACCTGGCCGACATGAGCTTTGAGCTTCCCTGTCACTGCAAACCCGAAGAGGTGCCAGCTGTAGTCTGGTTCTACCAAAAGCACCTAGGTAGCAGCCACACCAAAGTGCTGACGGACTTTGATGGGCGGGTGCTGACGGAGGCAGCCCAGGTACGTGTGGGCAGCGACATGCTGACCCGCTTCAGCATCCGCATGTTCAGCTTGTTGGTTTTCAGGGCTCAGTCTGAGGACTCAGGCCTGTACTTCTGCGGCACCCGCAAGGGGGACTACTTTTACGCCTACGATGTGGACATCCAGAACAGTGAGGGAATGGTGGCCACTTTCCAGGACAAGGGCCAGGAGCCCTTTGCAGATGAATACTATGGGCACCTCCATGTCTTCACCACCTTCTGGGAATGGACCCCCTGTGACCGCTGCGGAGTGCGTGGGGAGCAGTGGCGCATCGGCCTCTGCTACCTGCAGAGCCCAGACCTCTCCCCACGCTACCTCAAGGCCGTGCCCGATGTGGTGTCTTGTGGCTCAAGGGCTGTGCCAAGGAAGCTGCGGACCAAGGCCAGGGACCACACGCCTGAGGTGCTGGTTCGGAGCTGCTTAGTACCCTGTGAGAAGACAAAGACCATCCGGGAGGGCGTGCTGGCCATCATTAACTATGTGTCCAAAGTGGGCAGCCGGCCCTGGGTGCCCCAGGTGCCCATTCAGTTCCACCAGCAGAGACTGGGCCATGGACTCATCATCTCCTGTCCTGGGGCCCGGCCAGAGCATGCAGTGGCCTGGGACAAAGACCGCCAGCAC	1287	MHLALTTVLLWAWGLQAFEIVEKENIFQRTPCPAFLMFENAAYLADMSFELPCHCKPEEVPAVVWFYQKHLGSSHTKVLTDFDGRVLTEAAQVRVGSDMLTRFSIRMFSLLVFRAQSEDSGLYFCGTRKGDYFYAYDVDIQNSEGMVATFQDKGQEPFADEYYGHLHVFTTFWEWTPCDRCGVRGEQWRIGLCYLQSPDLSPRYLKAVPDVVSCGSRAVPRKLRTKARDHTPEVLVRSCLVPCEKTKTIREGVLAIINYVSKVGSRPWVPQVPIQFHQQRLGHGLIISCPGARPEHAVAWDKDRQHLYRTQYLKGVNRSMRVFIDHGNQLHIRFTQLDDRGIYYCWRQGVLVAGFRLGVTSHGHYPASFSDPETRSAVELTLIGYLLITAV

				CTCTACCGCACACAGTACCTGAAGGGTGTCAACAGGTCCATGAGGGTGTTCATT GACCACGGCAACCAGCTCCACATCCGCTTCACCCAGCTGGATGACCGGGGCATC TACTATTGCTGGAGGCAGGGTGTGCTAGTTGCTGGCTTCCGGCTGGGTGTGACA TCTCATGGGCACTACCCAGCCTCGTTCTCAGATCCTGAGACTCGCTCGGCTGTG GAGCTCACCCTGATAGGCTACCTGCTCATCACAGCAGTCTTTGTCACCATTCAC TTCTGTCGTTGCTGCTGCTACTTATTTCACTGTTGTCCCAGCTTCTCCCCCTAG		FVTIHFCRCCCYLFHCCPSFSP*
Human hGIT1_v1	10	prey33239	550	GGCCTTCCCGCGCCCCAAGAGACCTGCCCCAGCCCAAGAGGCTGCCACAGAGGG CCCCAGTGCTGCCTCTGGTGTGCCCCAGACGGGACCTGGCAGGGAGGTGGCAGC CACCCGGCCCAAGACCACCAAGTCGGGGAAGGCGCTGGCCAAGACTCGGTGGGT GGAGCCTCAGAATGTTGTGGCAGCAGCTGCTGCCAAGGCCAAGATGGCCACGAG CATCCCTGAGCCGGAGGGTGCAGCTGCTGCCACTGCTCAGCACAGTGCTGAGCC CTGGGCCAGGATGGGAGGCAAGAGGACCAAGAAGGTGAGATCCCCCTGCCCCCT GCCACCTCCACACCCCCTTGCTCCTGTCCTTTCCTTCTCCTCCCTTTCCTGCTC CTCTCCTCCCTCTCCTCTCCCCCTTCTTCCTCTCTTCTCCTCTTTCCCCTCCTT CTCTCCTCACCTCCCCTCTCCTCCCCTCCTCTCCTCTCAGCTAGTCCATGTTTC TCCAACACAAGTTTGCTGA	1288	AFPRPKRPAPAQEAATEGPSAAS GVPQTGPGREVAATRPKTTKSGK ALAKTRWVEPQNVVAAAAAKAKM ATSIPEPEGAAAATAQHSAEPWA RMGGKRTKKVRSPCPLPPPHPLA PVLSFSSLSCSSPPSPLPLLPLF SSFPSFSPHLPSPPLLSSQLVHV SPTQVC*
Human hGIT1_v1	10	prey7033	551	GACAGGGATAGGTACCACAAAGATAGGGACCACACTGACAGAACTAAAAGCAAA AGGTAA	1289	DRDRYHKDRDHTDRTKSKR*
Human hGIT1_v1	10	prey3514	552	TGGGAAGGAAGATTCTTCTTCTGCAGAATTTCTTGAAAAACGGAGGGCCGCTTT AGAAAGGTACCTTCAGAGGATTGTAAATCATCCTACCATGTTACAGGACC	1290	GKEDSSSAEFLEKRRAALERYLQ RIVNHPTMLQD
Human hGIT1_v1	10	hgx178	553	TGTCCACGCTCGTGATGATGGAGGTCTCATCCCGCTTCATAATGCCTGTTCTTT TGGCCATGCTGAGGTTGTGAGTCTGTTATTGTGCCAAGGAGCTGATCCAAATGC CAGGGATAACTGGAACTATACACCTCTGCATGAAGCTGCTATTAAAGGGAAGAT CGATGTGTGCATTGTGCTGCTGCAGCACGGAGCTGACCCAAACATTCGGAACAC TGATGGGAAATCAGCCCTGGACCTGGCAGATCCTTCAGCAAAAGCTGTCCTTAC AGGTGAATACAAGAAAGACGAACTCCTAGAAGCTGCTAGGAGTGGTAATGAAGA AAAACTAATGGCTTTACTGACTCCTCTAAATGTGAATTGCCATGCAAGTGATGG GCGAAAGTCGACTCCTTTACATCTAGCAGCGGGCTACAACAGAGTTCGAATAGT TCAGCTTCTTCTTCAGCATGGTGCTGATGTTCATGCAAAAGACAAAGGTGGACT TGTGCCTCTTCATAATGCATGTTCATATGGACATTATGAAGTCACAGAACTGCT ACTAAAGCATGGAGCTTGTGTTAATGCCATGGATCTCTGGCAGTTTACTCCACT GCACGAGGCTGCTTCCAAGAACCGTGTAGAAGTCTGCTCTTTGTTACTTAGCCA TGGCGCTGATCCTACGTTAGTCAACTGCCATGGCAAAAGTGCTGTGGATATGGC TCCAACTCCGGAGCTTAGGGAGAGATTGACTTATGAATTTAAAGGTCATTCTTT ACTACAAGCAGCCAGAGAAGCAGACTTAGCTAAAGTTAAAAAAACACTCGCTCT GGAAATCATTAATTTCAAACAACCGCAGTCTCATGAAACAGCACTGCACTGTGC TGTGGCCTCTCTGCATCCCAAACGTAAACAAGTGACAGAATTGTTACTTAGAAA AGGAGCA	1291	VHARDDGGLIPLHNACSFGHAEV VSLLLCQGADPNARDNWNYTPLH EAAIKGKIDVCIVLLQHGADPNI RNTDGKSALDLADPSAKAVLTGE YKKDELLEAARSGNEEKLMALLT PLNVNCHASDGRKSTPLHLAAGY NRVRIVQLLLQHGADVHAKDKGG LVPLHNACSYGHYEVTELLLKHG ACVNAMDLWQFTPLHEAASKNRV EVCSLLLSHGADPTLVNCHGKSA VDMAPTPELRERLTYEFKGHSLL QAAREADLAKVKKTLALEIINFK QPQSHETALHCAVASLHPKRKQV TELLLRKGA

Human hGIT1_v1	10	prey33302	554	TGATGCANTTTGTGGACCACAGANGAGGNGGCGGANGCTGGGGTGTGTCTCTTC TCGCTNCTGCTACCAGTTGTTAATCNAACANTCCCAATCTGATGTATCAGGATN ANTGTGACNNAATGCTTCTATGANTCTATGATTGNNGCNGGTGTNACTCTGNAN ATTNTNGNGATCNTNGTGANNCNGATGGACNTGGTTATNCTNATGGTGGNGGGN TATNNANNNGNGGNGTTNTNCNTNTGCGGGGACATNGCGGNTCCGCGNCCGAAT NNNCGCNGTGNNNGGGNCNCNCNGCGGTG	1292	*CXLWTTXEXAXAGVCLFSLLLP VVNXTXPI*CIRXXVTXCFYXSM IXAGVTLXIXXIXVXXMDXVXLM VXGYXXXXXXXCGDXAXPRPNXR XXXXXXR
Human hGIT1_v1	10	prey33265	555	CCACCGCTTCCGGCCTGAGCTCATCAACTTTGACTCTTTGAATGAAGATGATGC TGTGGAGAACAACCAGCTCGCATTTGATGTGGCCGAGCGAGAGTTTGGGATCCC TCCAGTGACCACGGGCAAAGAGATGGCATCTGCCCAGGAGCCTGACAAGCTCAG CATGGTCATGTACCTCTCCAAGTTCTACGAGCTCTTCCGGGGCACCCCACTGAG GCCCGTGGATTCTTGGCGCAAAAACTATGGAGAAAATGCTGACCTCAGCTTGGC CAAATCATCCATTTCTAATAACTATCTCAACCTCACATTTCCAAGGAAGAGGAC TCCACGGGTGGATGGTCAAACCGGAGAGAATGACATGAACAAACGGAGACGGAA GGGCTTCACCAACCTGGACGAGCCTTCAAACTTTTCCAGCCGTAGCTTGGGCTC CAATCAAGAGTGTGGGAGCAGTAAGGAAGGTGGAAATCAGAACAAAGTCAAGTC CATGGCGAATCAGCTGCTGGCCAAGTTTGAGGAGAGCACTCGGAACCCCTCACT CATGAAGCAGGAACGCCGTGTCTCAGGGATAGGTAAGCCGGTCCTGTGCTCTTC CTCCGGCCCTCCTGTTCACTCTTGCTGCCCCAAGCCGGAGGAGGCCACACCCAG CCCATCACCTCCTCTGAAAAGGCAGTTCCCCTCTGTGGTCGTGACGGGGCACGT GCTCAGAGAGCTCAAGCAAGTGTCTGCTGGCAGTGAGTGCCTGAGCAGACCTTG GAGAGCCAGAGCCAAGTCTGACCTACAGCTGGGTGGGACAGAAAATTTCGCTAC CCTGCCTTCTACCCGCCCGAGGGCGCAGGCTCTTTCCGGGGTGCTGTGGCGGCT GCAGCAAGTGGAGGAAAAGATTCTCCAGAAGAGGGCTCAGAACTTGGCCAACAG GGAATTTCACACAAAGAACATTAAGGAGAAGGCGGCTCACCTTGCCTCCATGTT TGGACACGGGGATTTCCCGCAGAATAAACTGCTCTCTAAAGGCCTGTCTCATAC TCATCCTCCATCTCCTCCCTCTCGCCTTCCGTCTCCTGATCCAGCTGCTTCTTC CTCTCCATCAACTGTTGACTCTGCTTCTCCTGCCAGAAAGGAAAAGAAGTCACC TTCAGGGTTCCATTTTCATCCCAGCCATTTGAGAACAGTGCATCCTCAGCTGAC GGTAGGGAAAGTGTCCAGCGGAATAGGGGCTGCAGCTGAAGTCCTGGTCAATCT GTACATGAATGATCACAGACCTAAGGCCCAGGCCACCTCTCCAGACCTGGAATC TATGCGAAAGTCATTTCCCCTTAACCTGGGAGGCAGCGACACGTGTTACTTCTG TAAGAAACGTGTGTACGTGATGGAACGGCTGAGCGCCGAGGGCCACTTCTTCCA CCGGGAGTGTTTCCGCTGCAGCATCTGTGCCACCACCTTGCGCCTGGCCGCCTA CACCTTTGACTGCGATGAAGGCAAATTTTACTGCAAGCCTCACTTCATTCACTG TAAAACCAATAGCAA	1293	HRFRPELINFDSLNEDDAVENNQ LAFDVAEREFGIPPVTTGKEMAS AQEPDKLSMVMYLSKFYELFRGT PLRPVDSWRKNYGENADLSLAKS SISNNYLNLTFPRKRTPRVDGQT GENDMNKRRRKGFTNLDEPSNFS SRSLGSNQECGSSKEGGNQNKVK SMANQLLAKFEESTRNPSLMKQE RRVSGIGKPVLCSSSGPPVHSCC PKPEEATPSPSPPLKRQFPSVVV TGHVLRELKQVSAGSECLSRPWR ARAKSDLQLGGTENFATLPSTRP RAQALSGVLWRLQQVEEKILQKR AQNLANREFHTKNIKEKAAHLAS MFGHGDFPQNKLLSKGLSHTHPP SPPSRLPSPDPAASSSPSTVDSA SPARKEKKSPSGFHFHPSHLRTV HPQLTVGKVSSGIGAAAEVLVNL YMNDHRPKAQATSPDLESMRKSF PLNLGGSDTCYFCKKRVYVMERL SAEGHFFHRECFRCSICATTLRL AAYTFDCDEGKFYCKPHFIHCKT NS
Human hGIT1_v1	10	prey1315	556	TAACACCATCCCTTCCCTGGGCCAGAGTCCTGGGCCAGTGGTGGTGTCCAACAA CAGCTCTGCTCATGGCTCTCAAAGAACCAGCGGACCTGAGTCTTCAATGAAAGT GACCTCTTCCATCCCAGTATTTGACCTCCAGGATGGTGGACGGAAAATATGTCC ACGATGTAATGCTCAATTTCGTGTTACTGAAGCTTTGAGAGGTCACATGTGTTA	1294	NTIPSLGQSPGPVVVSNNSSAHG SQRTSGPESSMKVTSSIPVFDLQ DGGRKICPRCNAQFRVTEALRGH MCYCCPEMVEYQKKGKSLDSEPS

				CTGTTGCCCAGAAATGGTTGAATACCAGAAGAAAGGAAAGTCCCTGGATTCAGAACCCAGTGTCCCATCAGCAGCAAAGCCCCCATCCCCTGAGAAAACAGCTCCTGTTGCTTCCACACCCTCTTCTACACCTATTCCTGCTCTGTCACCGCCTACCAAAGTACCAGAACCAAATGAGAACGTGGGCGATGCCGTCCAGACCAAACTCATTATGCTTGTAGATGACTTCTACTATGGACGGGATGGTGGCAAAGTAGCCCAGCTCACAAATTTCCCTAAGGTCGCCACATCTTTCCGATGCCCACATTGTACCAAAAGGCTAAAAAACAATATTCGATTCATGAACCATATGAAACACC		VPSAAKPPSPEKTAPVASTPSSTPIPALSPPTKVPEPNENVGDAVQTKLIMLVDDFYYGRDGGKVAQLTNFPKVATSFRCPHCTKRLKNNIRFMNHMKH
Human hGIT1_v1	10	prey33342	557	TGAGGTCTACAAAGTATGCACTAAAATACCCATACTTCAAAAAGCAATAAGGCAAATAGTATAATCATTATTCCAAAAGTTACAATGGTAGTGTAGGCATACATAGTATAATTTAGTTACAATGTGTGGTACTGTTTCTATTATATAACCATATTAACTGTTTATTTCCTACATAATTATAAATTCAGCTGGGTTTCAGATGAACACAAAACCGTCCTTGTACCACCACTGATAGCTGGCAATAGCTCTTTGACAGCAGTTTTTATTCTGCTGTAGAAATTATCCTTGAACTGAAAAAGTCCATAATCCAACGTCCAGTCATTAAACACTATCATATTTGTGAAGAGCTTCTTCCAACTTCTGGGTAACTTTTTGGAAAAATATTATTTGTTGTTGTAAGAAATGCTGCATCTGTGATTTAAAGTCTCTCACTCGAATTTGATGGAAGTGGTGAATTTCAGA	1295	EVYKVCTKIPILQKAIRQIV*SLFQKLQW*CRHT*YNLVTMCGTVSII*PY*LFISYIIINSAGFQMNTKPSLYHH**LAIAL*QQFLFCCRNYP*TEKVHNPTSSH*TLSYL*RASSNFWVTFWKNIICCCKKCCICDLKSLTRI*WKW*IS
Human hGIT1_v1	10	prey1323	558	GCCTTTAGCTCCTACACCTTCAGCACCCTGCCCAGCTACTCCTGCTGGACCAAAGGGAAGGGTGTTTGTTAGCCCTCTTGCAAAGAAGTTGGCAGTAGAGAAAGGGATTGATCTTACACAAGTAAAAGGGACAGGACCAGATGGTAGAATCACCAAGAAGGATATCGACTCTTTTGTGCCTAGTAAAGTTGCTCCTGCTCCGGCAGCTGTTGTGCCTCCCACAGGTCCTGGAATGGCACCAGTTCCTACAGGTGTCTTCACAGATATCCCAATCAGCAACATTCGTCGGGTTATTGCACAGCGATTAATGCAATCAAAGCAAACCATACCTCATTATTACCTTTCTATCGATGTAAATATGGGAGAAGTTTTGTTGGTACGGAAAGAACTTAATAAGATATTAGAAGGGAGAAGCAAAATTTCTGTCAATGACTTCATCATAAAAGCTTCAGCTTTGGCATGTTTAAAAGTTCCCGAAGCAAATTCTTCTTGGATGGACACAGTTATAAGACAAAATCATGTTGTTGATGTCAGTGTTGCGGTCAGTACTCCTGCAGGACTCATCACACCTATTGTGTTTAATGCACATATAAAAGGAGTGGAAACCATTGCTAATGATGTTGTTTCTTTAGCAACCAAAGCAAGAGAGGGTAAACTACAGCCACATGAATTCCAGGGTGGCACTTTTACGATCTCCAATTTAGGAATGTTTGGAATTAA	1296	PLAPTPSAPCPATPAGPKGRVFVSPLAKKLAVEKGIDLTQVKGTGPDGRITKKDIDSFVPSKVAPAPAAVVPPTGPGMAPVPTGVFTDIPISNIRRVIAQRLMQSKQTIPHYYLSIDVNMGEVLLVRKELNKILEGRSKISVNDFIIKASALACLKVPEANSSWMDTVIRQNHVVDVSVAVSTPAGLITPIVFNAHIKGVETIANDVVSLATKAREGKLQPHEFQGGTFTISNLGMFGI
Human hGIT1_v1	10	prey33269	559	AACAAGACCAAGAAGACAGAGGAGCTCCGAAAAACCGTGGAGGACCTTGATGGCCTCATCCAGCAAATCTACAGAGACCAGGATCTGACCCAGGAAATTGCCATGGAGCATTTTGTGAAGAAGGTGGAGGCAGCCCATTGTGCAGCCTGCGACCTCTTCATTCCCATGCAGTTTGGGATCATCCAGAAGCATCTGAAGACCATGGATCACAACCGGAACCGCAGGCTCATGATGGAGCAGTCCAAGAAGTCCTCCCTCATGGTGGCCCGCAGTATTCTCAACAACAAGCTCATCAGCAAGAAGCTGGAGCGCTACCTGAAGGGCGAGAACCCTTTCACCGACAGCCCCGAGGAGG	1297	NKTKKTEELRKTVEDLDGLIQQIYRDQDLTQEIAMEHFVKKVEAAHCAACDLFIPMQFGIIQKHLKTMDHNRNRRLMMEQSKKSSLMVARSILNNKLISKKLERYLKGENPFTDSPEE
Human hGIT1_v1	10	prey4271	560	GGCCCATCAACCGTGAGATGCGCCACCTGATTAGTAGTCTTCAAAACCACAACCACCAGCTAAAAGGGGACGCCCAGCGATACAAGCGGAAGCTTCGAGAAGTACAAG	1298	PINREMRHLISSLQNHNHQLKGDAQRYKRKLREVQAEIGKLRAQAS

				CTGAGATTGGCAAGCTCCGGGCCCAGGCCAGTGGCTCTGCCCACTCCACCCCCA ACCTGGGCCACCCAGAGGATTCTGGCGTCAGTGCCCCAGCCCCAGGGAAAGAGG AGGGTGGGCCAGGCCCTGTCAGTACCCCCGACAACAGAAAGGAGATGGCTCCAG TGCCTGGCACCACCACTACTACCACTTCAGTGAAGAAGGAGGAGCTGGTCCCCT CTGAAGAGGACTTCCAGGGTATAACCCCTGGGGCCCAGGGCCCTTCCTCCCGGG GCCGAGAACCTGAGGCCAGGCCCAAGCGGGAGCTTCGGGAACGGGAAGGTCCCA GCCTAGGACCTCCACCTGTAGCCTCCGCTCTCTCAAGGGCTGATCGGGAGAAGG CCAAGGTGGAAGAAACCAAGCGGAAGGAATCAGAACTCCTCAAGGGTCTCCGAG CAGAGCTCAAGAAGGCCCAGGAGAGCCAGAAGGAGATGAAACTGCTGCTGGATA TGTACAAGTCAGCGCCCAAGGAGCAGCGGGATAAGGTGCAGCTCATGGCAGCGG AACGCAAGGCTAAGGCCGAGGTTGATGAGCTGCGGAGCCGCATCCGGGAATTGG AGGAGAGGGATCGAAGGGAGAGCAAGAAGATCGCGGATGAGGATGCCCTGCGGC GCATTCGGCAGGCAGAGGAGCAG		GSAHSTPNLGHPEDSGVSAPAPG KEEGGPGPVSTPDNRKEMAPVPG TTTTTTSVKKEELVPSEEDFQGI TPGAQGPSSRGREPEARPKRELR EREGPSLGPPPVASALSRADREK AKVEETKRKESELLKGLRAELKK AQESQKEMKLLLDMYKSAPKEQR DKVQLMAAERKAKAEVDELRSRI RELEERDRRESKKIADEDALRRI RQAEEQ
Human hGIT1_v1	10	prey33280	561	ATGGTGGCTGAGCTGGCTGGACAGCAGGACCCTGGGCTGGGTGCCTTTTCCTGT CAGGAGGCCCGGAGAGCCTGGCTGGATCGTCATGGCAACCTTGATGAAGCTGTG GAGGAGTGTGTGAGGACCAGGCGAAGGAAGGTGCAGGAGCTCCAGTCTCTAGGC TTTGGGCCTGAGGAGGGGTCTCTCCAGGCATTGTTCCAGCACGGAGGTGATGTG TCACGGGCCCTGACTGAGCTACAGCGCCAACGCCTAGAGCCCTTCCGCCAGCGC CTCTGGGACAGTGGCCCTGAGCCCACCCCTTCCTGGGATGGGCCAGACAAGCAG AGCCTGGTCAGGCGGCTTTTGGCAGTCTACGCACTCCCCAGCTGGGGCCGGGCA GAGCTGGCACTGTCACTGCTGCAGGAGACACCCAGGAACTATGAGTTGGGGGAT GTG	1299	MVAELAGQQDPGLGAFSCQEARR AWLDRHGNLDEAVEECVRTRRRK VQELQSLGFGPEEGSLQALFQHG GDVSRALTELQRQRLEPFRQRLW DSGPEPTPSWDGPDKQSLVRRLL AVYALPSWGRAELALSLLQETPR NYELGDV
Human hGIT1_v1	10	prey33285	562	CACAGCCCAAGCTANNTATGTGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTGCGCCCTGGCCCAAAAGTAACATG TTTTTANGNANTCCATNNTCCNATGNTCANTAGCCTCCTCTGGTCACCTTGTTT ANNCAAGTCACACTATGAANCCGTTANTNAGGTATGTGCAANCAGNNCTGTCTC TNCAGCNAGCNTANGAGGNCNANANNNCAAGACNGGGGTCTTNNTTCNTTNAGN CAGTCANTCATNCACGANCAGNG	1300	HSPSXXCXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXX APWPKSNMFLXXPXSXXX*PPLV TLFXQVTL*XRXXGMCXQXCLXS XXXRXXXQDXGLXSXXQSXXHXQ
Human hGIT1_v1	10	prey33286	563	NCGCNTNCCGGNCCTTGGGTCATGGNATTCNNGCANTNNTCCCAGGTTCATNCC CACCCTCNCCNCNGTNANNTGATATTCAATACANATTTGTCTTTTGCCCNNTTT CAAGNAAAAAGNGNTGCNTATGGCCAGTCCCCTCNCNCAAGAAAGNCANAANCN GTNTCNTNCANCNNTATNGNNCGTNAATNAAANNANNTGNGNNANANNGNAANT NATAGNGGCCACNAAGTGAAAGNAANGATTTTTGCGCACATGTGCGACATACAA TNNNCAGTGAAGNATGTACANAAGGCAAAAAATGTCANCCAGNCANNTGCANTA GCAGGANTANAAAATACNNTTGNGAAAG	1301	XXXGPWVMXFXXXSQVHXHPXXX XXIFNTXLSFAXFQXKXXAYGQS PXXRKXXXVSXXXXXRXXXXXXX XXXXXGHXVKXXIFAHMCDIQXX VKXVXKAKNVXQXXAXAGXXNTX XK
Human hGIT1_v1	10	prey19340	564	CCCACAGAGTGTTGGTGTGAATACCCGGAGGTCTTCCCAAGCAGGGGATATTGC TGCAGAAAAACTAGTCCCCAAGCCACCTCCAGCAAAGCCTTCTAGGCCCCGGCC GAAGAGTCGAATTTCTCGGTACAGGACCAGTTCAGCCCAAAGACTAAAGCGTCA	1302	PQSVGVNTRRSSQAGDIAAEKLV PKPPPAKPSRPRPKSRISRYRTS SAQRLKRQKQANAQQAELSQAAL

				GAAGCAGGCCAATGCACAGCAGGCAGAATTGTCACAAGCTGCCTTGGAAGAGGG AGGAAGTAACAGTTTAGTAACTCCTACTGAAGCTGGAAGTCTAGACAGTTCAGG AGAAAACAGGCCATTAACAGGGTCTGACCCAACTGTGGTGTCAATTACTGGATC CCATGTCAACCGTGCTGCATCTAAATACCCCAAAACCAAAAAGTATCTAGTTAC AGAATGGTTGAATGACAAAGCAGAGAAGCAAGAGTGCCCTGTTGAGTGCCCTTT ACGTATCACAACGGATCCAACTGTACTGGCAACGACCCTAAACATGTTACCAGG TCTTATCCATTCCCCGTTAATTTGCACCACCCCCAAACACTACATTCGCTTTGG CTCACCCTTTATCCCTGAGAGACGTCGAAGGCCCCTTCTGCCTGATGGCACATT CAGCCCCTGTAAGAAGCGCTGGATAAAACAAGCCTTAGAAGAAGGGATGACTCA AACATCATCTGTACCCCAAGAGACTAGAACTCAGCACCTATACCAAAGCAATGA GAATAGTAGCTCTTCTAGTATCTGCAAAGACAATGCAGACTTGTTGAGCCCATT AAAGAAATGGAAGTCTCGCTATCTGATGGAGCAGAATGTCACCAAGTTACTTCG GCC		EEGGSNSLVTPTEAGSLDSSGEN RPLTGSDPTVVSITGSHVNRAAS KYPKTKKYLVTEWLNDKAEKQEC PVECPLRITTDPTVLATTLNMLP GLIHSPLICTTPKHYIRFGSPFI PERRRRPLLPDGTFSPCKKRWIK QALEEGMTQTSSVPQETRTQHLY QSNENSSSSICKDNADLLSPLK KWKSRYLMEQNVTKLLR
Human hGIT1_v1	10	prey11988	565	GCCTGTGGATGCTTCATCAGTTTCTAACAACTATATCCAGACTTTGGGTCGTGA TTTCCGCAAGAATGGCAATGGGGGACCTGGTCCCTATGTGGGGCAAGCTGGCAC TGCTACCCTTCCTAGGAACTTCCACTACCCTCCTGATGGTTATAGTCGCCACTA TGAAGATGGTTATCCAGGTGGCAGTGATAACTATGGCAGTCTGTCCCGGGTGAC CCGCATTGAGGAGCGGTATAGGCCCAGCATGGAAGGCTACCGGGCACCTAGTAG ACAGGATGTGTATGGGCCCCAACCCCAGGTTCGGGTAGGTGGGAGCAGCGTGGA TCTGCATCGCTTTCATCCAGAGCCTTATGGGCTAGAGGATGACCAGCGTAGTAT GGGCTATGATGACCTGGATTATGGTATGATGTCTGATTATGGCACTGCCCGTCG GACTGGGACACCCTCTGACCCTCGTCGGCGCCTCAGGAGCTATGAAGACATGAT TGGTGAGGAGGTGCCATCGGATCAATACTACTGGGCTCCTTTGGCCCAGCATGA GCGAGGAAGTTTAGCAAGCTTGGATAGCCTGCGCAAAGGAGGGCCTCCACCTCC TAATTGGAGACAGCCAGAGCTGCCAGAGGTGATCGCCATGCTTGGATTCCGCTT GGATGCTGTCAAGTCCAATGCAGCTGCATACCTGCAACACTTATGCTACCGCAA TGACAAGGTGAAGACTGACGTGCGGAAGCTCAAGGGCATCCCAGTACTGGTGGG ATTGTTAGACCATCCCAAAAAGGAAGTGCACCTTGGAGCCTGTGGAGCTCTCAA GAATATCTCTTTTGGACGTGACCAGGATAACAAGATTGCCATAAAAAACTGTGA TGGTGTGCCTGCCCTTGTGCGATTGCTTCGAAAGGCTCGTGATATGGACCTTAC TGAAGTTATTACCGGAACCCTGTGGAATCTTTCATCCCATGACTCAATCAAAAT GGAGATTGTGGACCATGCACTGCATGCCTTGACAGATGAAGTGATCATTCCTCA TTCTGGTTGGGAGCGGGAACCTAATGAAGACTGTAAGCCACGCCATATTGAGTG GGAATCGGTGCTCACCAACACAGCTGGCTGCCTTAGGAATGTAAGCTCAGAGAG GAGTGAAGCTCGCCGGAAACTTCGGGAATGTGATGGTTTAGTTGATGCCCTCAT TTTCATTGTTCAGGCTGAGATTGGGCAGAAGGATTCAGACAGCAAGCTTGTAGA GAACTGTGTTTGCCTTCTTCGGAACTTATCATATCAAGTTCACCGGGAGATCCC ACAGGCAGAGCGTTACCAAGAGGCAGCTCCCAATGTTGCCAACAATACTGGGCC ACATGCTGCCAGTTGCTTTGGGGCCAAGAAGGGCAAAGGAAAAAACCTATAGA	1303	PVDASSVSNNYIQTLGRDFRKNG NGGPGPYVGQAGTATLPRNFHYP PDGYSRHYEDGYPGGSDNYGSLS RVTRIEERYRPSMEGYRAPSRQD VYGPQPQVRVGGSSVDLHRFHPE PYGLEDDQRSMGYDDLDYGMMSD YGTARRTGTPSDPRRRLRSYEDM IGEEVPSDQYYWAPLAQHERGSL ASLDSLRKGGPPPPNWRQPELPE VIAMLGFRLDAVKSNAAAYLQHL CYRNDKVKTDVRKLKGIPVLVGL LDHPKKEVHLGACGALKNISFGR DQDNKIAIKNCDGVPALVRLLRK ARDMDLTEVITGTLWNLSSHDSI KMEIVDHALHALTDEVIIPHSGW EREPNEDCKPRHIEWESVLTNTA GCLRNVSSERSEARRKLRECDGL VDALIFIVQAEIGQKDSDSKLVE NCVCLLRNLSYQVHREIPQAERY QEAAPNVANNTGPHAASCFGAKK GKGKKPIEDPAN

				GGATCCAGCAAAC		
Human hGIT1_v1	10	prey5365	566	GCGACACACAGACTTCCTGCTGCCCCATGAGAGAGCTAGCCAGGATGGCAGTGG TTTTTCCCGCATTCTGAGCATGTTGGCTGATTCTACCAGTACACAGGAAAAAAG GCGACGTAGCTTTCCCGACATTGAAGATGAGGAGAAATTTCTCTATGGGGATGA AGAAGAGGATTTAAAGGCAGAATCCGTACCAAAGCCCCTTGGGAGCTCTGAGAG TGAAGTTATGAGGCAGAAGGCAAGCTCCCTGCCGTCTTCAGCTCCAGCTGTAAA GCTAGAATCACTAGAAGAGACCAATCCAGAATATGCGAAGATCCATGACTTGCT CAAGACAATAGGGCTGGATATTGGAGTAGCAGAGATTAGTCAATTGGCTGC	1304	RHTDFLLPHERASQDGSGFSRIL SMLADSTSTQEKRRRSFPDIEDE EKFLYGDEEEDLKAESVPKPLGS SESEVMRQKASSLPSSAPAVKLE SLEETNPEYAKIHDLLKTIGLDI GVAEISQLA
Human hGIT1_v1	10	prey2999	567	ATGGTGGACTACCACGCGGCGAACCAGTCGTACCAGTACGGCCCCAGCAGCGCG GGCAATGGCGCTGGCGGCGGGGGCAGCATGGGCGACTACATGGCCCAGGAGGAC GACTGGGACCGGGACCTGCTGCTGGACCCGGCCTGGGAGAAGCAGCAGCGCAAG ACCTTCACGGCATGGTGCAACTCCCACCTGCGGAAGGCAGGCACACAGATCGAG AACATTGATGAGGACTTCCGAGACGGGCTCAAGCTCATGCTGCTCCTGGAGGTC ATATCAGGGGAGCG	1305	MVDYHAANQSYQYGPSSAGNGAG GGGSMGDYMAQEDDWDRDLLLDP AWEKQQRKTFTAWCNSHLRKAGT QIENIDEDFRDGLKLMLLLEVIS GE
Human hGIT1_v1	10	prey33304	568	GCTCNNNNGATCTNGCCATTGNNCTCCNGACTGGGNNNCAAGTAGCAAAACTTT GTCGCAAAAAAGGAAGTANTATTTATGANGAGTTGCTTATCAAAATCTTATTAG AAATTATGAGATGTAATATTTATGAAGAATTGCTTGAAAGATGATCTATNCATT CTCTAGATTTGTACANTTTNTTGTTNGGATTGANGCCNGGCTNTNNGAAATGTG TGGCGCCTGNCGCTGGGTTGTGTGTTGGGGCTGGGGTGGCGGACGGNTGGNGGC NTGGGGTGGNGGGGGNTGGGGGGNGTGGGGGNGGTG	1306	AXXIXPLXSXLGXK*QNFVAKKE VXFMXSCLSKSY*KL*DVIFMKN CLKDDLXIL*ICTXXCXD*XXAX XNVWRLXLGCVLGLGWRTXGGXG WXGXGGVGXV
Human hGIT1_v1	10	prey700	569	ATGGGAATTGGTCTTTCTGCTCAAGGTGTGAACATGAATAGACTACCAGGTTGG GATAAGCATTCATATGGTTACCATGGGGATGATGGACATTCGTTTTGTTCTTCT GGAACTGGACAACCTTATGGACCAACTTTCACTACTGGTGATGTCATTGGCTGT TGTGTTAATCTTATCAACAATACCTGCTTTTACACCAAGAATGGACATAGTTTA GGTATTGCTTTCACTGACCTACCGCCAAATTTGTATCCTACTGTGGGGCTTCAA ACACCAGGAGAAGTGGTCGATGCCAATTTTGGGCAACATCCTTTCGTGTTTGAT ATAGAAGACTATATGCGGGAGTGGAGAACCAAAATCCAGGCACAGATAGATCGA TTTCCTATCGGAGATCGAGAAGGAGAATGGCAGACCATGATACAAAAAATGGTT TCATCTTATTTAGTCCACCATGGGTACTGTGCCACAGCAGAGGCCTTTGCCAGA TCTACAGACCAGACCGTTCTAGAAGAATTAGCTTCCATTAAGAATAGACAAAGA ATTCAGAAATTGGTATTAGCAGGAAGAATGGGAGAAGCCATTGAAACAACAC	1307	MGIGLSAQGVNMNRLPGWDKHSY GYHGDDGHSFCSSGTGQPYGPTF TTGDVIGCCVNLINNTCFYTKNG HSLGIAFTDLPPNLYPTVGLQTP GEVVDANFGQHPFVFDIEDYMRE WRTKIQAQIDRFPIGDREGEWQT MIQKMVSSYLVHHGYCATAEAFA RSTDQTVLEELASIKNRQRIQKL VLAGRMGEAIETT
Human hGIT1_v1	10	prey21299	570	TACTGCAGGGCTCCGAGGTTCTGCCTTGGGCCTCCCTCAGGCCTGCCAACCTGA GGAGTTACTGTGCTTCAGTTGCCAGATGTGCATGGCCCCTGAGCACCAGCACCA CAGTCTGAGGGACCTCCCGGTGCATAACAAATTTAGTAACTGGTGTGGGGTTCA GAAGGGCTCACCTGGGGGGTTGGACATGACTGAGGAGGAGCTGGGGGCCAGCGG TGATCTCAGCTCTGAAAAGCAGGAACAGAGTCCCCCACAACCTCCTAATGACCA CAGCCAGGATTCTGAGTGGTCCAAGAGGGAGCAGATCCCCCTGCAAGTTGGGGC CCAGAACCTCTCACTCAGCGTGGAACTCACAGAAGCGAAACTGCACCATGGCTT	1308	TAGLRGSALGLPQACQPEELLCF SCQMCMAPEHQHHSLRDLPVHNK FSNWCGVQKGSPGGLDMTEEELG ASGDLSSEKQEQSPPQPPNDHSQ DSEWSKREQIPLQVGAQNLSLSV ELTEAKLHHGFGEADALLQVLQS GTGEALAADEPVTSTWKELYARQ

				TGGGGAGGCCGATGCCCTGCTCCAGGTGCTGCAGAGTGGGACAGGGGAGGCGCT TGCTGCTGATGAACCTGTGACATCCACCTGGAAGGAGCTCTATGCACGGCAAAA AAAGGCCATTGAGACCCTCAGGAGAGAGCGGGCTGAGCGACTTGGGAACTTCTG CCGGACGCGAAGCCTTAGCCCTCAGAAACAACTGAGCCTCCTGCCCAACAAAGA TCTCTTCATCTGGGATCTTGACTTGCCCAGCAGACGCCGAGAATACCTGCAGCA ACTGAGGAAGGATGTTGTGGAGACCACCAGGAGCCCAGAGTCAGTGTCAAGGTC AGCTCACACACCCTCTGACATAGAGTTGATGCTGCAAGACTACCAGCAGGCCCA TGAGGAGGCCAAGGTGGAGATTGCCCGGGCCCGAGACCAACTGCGGGAGCGGAC TGAACAAGAGAAGCTGAGAATCCACCAGAAGATCATTTCCC		KKAIETLRRERAERLGNFCRTRS LSPQKQLSLLPNKDLFIWDLDLP SRRREYLQQLRKDVVETTRSPES VSRSAHTPSDIELMLQDYQQAHE EAKVEIARARDQLRERTEQEKLR IHQKIIS
Human hGIT1_v1	10	prey20344	571	TGGCAACAGTCAGTTTGCATCACAAGAGGATTCAGAAATTCAGAGGTTGATTAC AGAAATGGAGGCATGTATATCTGTACTTCCAACAGTAAGTGGAAACACAGATAT TCAAGTTGAGATAGCACTGGCCATGCAACCATTAAGAAGTGAGAATGCTCAGTT ACGAAGGCAGTTGACAATTTTGAACCAGCAACTCAGAGAACA	1309	GNSQFASQEDSEIQRLITEMEAC ISVLPTVSGNTDIQVEIALAMQP LRSENAQLRRQLTILNQQLRE
Human hGIT1_v1	10	prey20344	572	TTAGATGCCAACATAGCTAGACTCCAGAAGTCTTTAAGGACTGGTCTTCTGGAG AAATGA	1310	LDANIARLQKSLRTGLLEK*
Human hGIT1_v1	10	prey33307	573	GAGATCCAGCCTGACTTTGGCCCTTTAACCACACCTACCAAGCCCAAGGNAAGG CTCTCAGGGAGAGCCGTGGACACCGACAGCCAACCTGAAAATGCTCATCAGTGC TGTGAGCCCTGAGATCCGCAACAGAGATCAGAAAAGGGGTTTGTTTGACAACAG AAGTGGATTACCTGAGGCCAAAGACTGTATACACNAACACTT	1311	EIQPDFGPLTTPTKPKXRLSGRA VDTDSQPENAHQCCEP*DPQQRS EKGFV*QQKWIT*GQRLYTXTL
Human hGIT1_v1	10	prey4629	574	CAGCGTGGACCATCCTGATGAGAAGTCCATAATCACTTATGTGGTGACTTATTA CCACTACTTCTCTAAGATGAAGGCCTTAGCTGTTGAAGGAAAACGAATTGGAAA GGTGCTTGACAATGCTATTGAAACAGAAAAAATGATTGAAAAGTATGAATCACT TGCCTCTGACCTTCTGGAATGGATTGAACAAACCATCATCATTCTGAACAATCG CAAATTTGCCAATTCACTGGTCGGGGTTCAACAGCAGCTTCAGGCATTCAACAC TTACCGCACTGTGGAGAAACCACCCAAATTTACTGAGAAGGGGAACTTGGAAGT GCTGCTCTTCACCATTCAGAGCAAGATGAGGGCCAACAACCAGAAGGTCTACAT GCCCCGGGAGGGGAAGCTCATCTCTGACATCAACAAGGCCTGGGAAAGACTGGA AAAAGCGGAACACGAAAGAGAACTGGCTTTGCGGAATGAGCTCATAAGACAGGA GAAACTGGAACAGCTCGCCCGCAGATTTGATCGCAAGGCAGCTATGAGGGAGAC TTGGCTGAGCGAAAACCAGCGTCTGGTGTCTCAGGACAACTTTGGGTTTGACCT TCCTGCAGTTGAGGCCGCCACAAAAAAGCACGAG	1312	SVDHPDEKSIITYVVTYYHYFSK MKALAVEGKRIGKVLDNAIETEK MIEKYESLASDLLEWIEQTIIIL NNRKFANSLVGVQQQLQAFNTYR TVEKPPKFTEKGNLEVLLFTIQS KMRANNQKVYMPREGKLISDINK AWERLEKAEHERELALRNELIRQ EKLEQLARRFDRKAAMRETWLSE NQRLVSQDNFGFDLPAVEAATKK HE
Human hGIT1_v1	10	prey4629	575	GTCAGAGGAGAAGGCCAAGGATGAGCAGAGTGCTGTCTCCATGTTGAAGAAGCA CCAGATCTTAGAACAAGCTGTGGAGGACTATGCAGAGACCGTGCATCAGCTCTC CAAGACCAGCCGGGCCCTGGTGGCCGACAGCCATCCTGAAAGTGAGCGCATTAG CATGCGGCAGTCCAAAGTGGATAAACTGTACGCTGGTCTGAAAGACCTTGCTGA AGAGAGAAGAGGCAAGCTGGATGAGAGACACAGGTTATTCCAGCTCAACCGGGA GGTGGACGACCTGGAGCAGTGGATCGCTGAGAGGGAGGTGGTCGCAGGGTCCCA TGAACTGGGACAGGACTATGAGCATGTCACGATGTTACAAGAACGATTCCGGGA	1313	SEEKAKDEQSAVSMLKKHQILEQ AVEDYAETVHQLSKTSRALVADS HPESERISMRQSKVDKLYAGLKD LAEERRGKLDERHRLFQLNREVD DLEQWIAEREVVAGSHELGQDYE HVTMLQERFREFARDTGNIGQER VDTVNHLADELINSGHSDAATIA

				GTTTGCCCGAGACACCGGGAACATTGGGCAGGAGCGCGTGGACACGGTCAATCA CCTGGCAGATGAGCTCATCAACTCTGGACATTCAGATGCCGCCACCATCGCTGA ATGGAAGGATGGCCTCAATGAAGCCTGGGCCGACCTCCTGGAGCTCATTGACAC AAGAACACAGATTCTTGCCGCTTCCTATGAACTGCACAAGTTTTACCACGATGC CAAGGAGATCTTTGGGCGTATACAGGACAAACACAAGAAACTCCCTGAGGAGCT TGGGAGAGATCAGAACACAGTGGAGACCTTACAGAGAATGCACACTACATTTGA GCATGACATCCAGGCTCTGGGC		EWKDGLNEAWADLLELIDTRTQI LAASYELHKFYHDAKEIFGRIQD KHKKLPEELGRDQNTVETLQRMH TTFEHDIQALG
Human hGIT1_v1	10	prey691	576	TAATTGGCAACAAGAAAGGTTTCAAGAGATTACTGGAAAACTTGGGCACTTTCT TAAGCAAGCAGGTTTTAAGGAGAGTGATGTAGGTTTTATTCCTACAAGTGGTCT CAGTGGTGAAAATCTAATCACAAGATCTCAGTCAAGTGAACTCACAAAATGGTA TAAAGGACTATGTTTATTAGAACAAATTGATTCCTTTAAGCCTCCCCAGCGATC TATTGACAAACCTTTTAGATTATGTGTGTCCGATGTTTTCAAAGATCAAGGATC TGGATTTTGCATAACTGGTAAAATAGAAGCTGGTTATATCCAAACTGGTGACCG ACTACTGGCAATGCCTCCTAATGAAACTTGTACCGTGAAAGGAATCACTCTGCA TGATGAACCTGTCGACTGGGCGGCAGCAGGCGATCATGTTAGTCTTACTTTGGT TGGGATGGATATCATCAAAATCAATGTTGGCTGCATATTTTGTGGCCCCAAAGT ACCCATTAAAGCTTGCACTCGTTTCAGAGCCC	1314	NWQQERFQEITGKLGHFLKQAGF KESDVGFIPTSGLSGENLITRSQ SSELTKWYKGLCLLEQIDSFKPP QRSIDKPFRLCVSDVFKDQGSGF CITGKIEAGYIQTGDRLLAMPPN ETCTVKGITLHDEPVDWAAAGDH VSLTLVGMDIIKINVGCIFCGPK VPIKACTRFRA
Human hGIT1_v1	10	prey5306	577	CATTCGGGGCTCTGAACCAGAGGAGGAAGCGCCCGTGCGGGAGGATGAGTCAGA GGTGGATGGGGACTGCAGCCTGACTGGACCTCCTGCTCTGGTGGGCTCCTATGG CACCTCCCCAGAGGGTATCGGAGGCTACATCCATTCCCATCGGCCCCTGGGCCC AGGAGAGTTTGAGTCCTTCATTGATGTCTATGCCATCCGGAGTGCTGAAGGAGC CCCCCAGAAGGAGGTCTACTTCATGGGCCTCATTGATATCCTTACACAGTATGA TGCCAAGAAGAAAGCAGCTCATGCAGCCAAAACTGTCAAGCATGGGGCTGGGGC AGAGATCTCTACCGTCCATCCGGAGCAGTATGCTAAGCGATTCCTGGATTTTAT TACCAACATCTTTGCCTAA	1315	IRGSEPEEEAPVREDESEVDGDC SLTGPPALVGSYGTSPEGIGGYI HSHRPLGPGEFESFIDVYAIRSA EGAPQKEVYFMGLIDILTQYDAK KKAAHAAKTVKHGAGAEISTVHP EQYAKRFLDFITNIFA*
Human hGIT1_v1	10	prey5374	578	ATGGCACCTCGAAAGGGGAAGGAAAAGAAGGAAGAACAGGTCATCAGCCTCGGA CCTCAGGTGGCTGAAGGAGAGAATGTATTTGGTGTCTGCCATATCTTTGCATCC TTCAATGACACTTTTGTCCATGTCACTGATCTTTCTGGCAAGGAAACCATCTGC CGTGTGACTGG	1316	MAPRKGKEKKEEQVISLGPQVAE GENVFGVCHIFASFNDTFVHVTD LSGKETICRVT
Human hGIT1_v1	10	prey33308	579	TTTTTCTAATTATTCCATTGAGTCAGTTTTTTGTGATTAGTGATTATCAGAGCA AACATCATGTAGATAGCACAAGTATTTGGAGAAACGTTGTTTGTTTTGTTACCA AAATGTTGGAAAAATTTATTTCAATACCTTTTAGATTTCATAAAGTGCAGTGTA TATAATGCCTACTGAAAGACTGTAAAATATTGAAATTTTCTTTCAAGCAAAGTG TAAAAAAATATATTGAGCCTGTAAATTGCTCTGTGACTAGACTTCATTGTCGTC TTAATATATTCTTGCATGTGCATATATATACACACATGTGTATATATATGTGTG TGATTATGTGACCTATGCC	1317	FF*LFH*VSFL*LVIIRANIM*I AQVFGETLFVLLPKCWKNLFQYL LDFIKCSVYNAY*KTVKY*NFLS SKV*KNILSL*IAL*LDFIVVLI YSCMCIYIHTCVYICV*LCDLC
Human hGIT1_v1	10	prey33310	580	TGCGNACTTTGTTNTCATTNNATGNTNGTGGANCTTGGAGAGGATTATCTGATT CACANCNCAANTTCTNNCNTGAGCTGTCCTCAGCTTANACNNTGGGCATTGGNT	1318	CXLCXHXMXVXLGEDYLIHXXXS XXSCPQLXXWALXALTXFXFXXT

				GCACTGACANTNTTTNCGTTTNTNNACACATGTTCTNGTGNCTCNNCTTGCCNN NACTGCTAGTTATTCACCTTTAGTCNTACNACCNTCTTTNTCATTNTGCACTAT CTCTCTGTGGATTCCATTTGNATTTTCTTGNTGAATTNTGGTGTTGNTCNTGTC TNTTTTTNTTTNANNGC		CSXXSXCXXC*LFTFSXTTXFXI XHYLSVDSIXIFLXNXGVXXVXF XXX
Human hGIT1_v1	10	prey10043	581	ATGACGAAGGAAGAATTCACAAAGATGAAACAGGAACTGGAAGCTGAATATTTG GCAATATTCAAGAAGACAGTTGCGATGCATGAAGTGTTCCTGTGTCGTGTGGCA GCACATCCTATTTTGAGAAGAGATTTAAATTTCCATGTCTTCTTGGAATATAAT CAAGATTTGAGTGTGCGAGGAAAAAATAAAAAAGAGAAACTTGAAGACTTCTTT AAAAACATGGTTAAATCAGCAGATGGAGTAATCGTTTCAGGAGTAAAGGATGTA GATGATTTCTTTGAGCACGAACGAACATTTCTTTTGGAATATCATAACCGAGTT AAGGATGCATCTGCTAAATCTGATAGAATGACAAGATCCCACAAAAGTGCTGCA GATGATTACAATAGAATTGGTTCTTCATTATATGCTTTAGGAACTCAGGATTCT ACAGATATATGCAAGTTTTTTCTCAAAGTTTCAGAACTGTTCGATAAAACAAGA AAAATAGAAGCACGAGTGTCTGCTGATGAAGACCTCAAACTTTCTGATCTTTTA AAATATTACTTAAGAGAATCTCAAGCTGCTAAGGATCTCCTGTATCGAAGGTCT AGGTCACTAGTGGATTATGAAAATGCTAATAAAGCACTGGATAAAGCAAGAGCA AAAAATAAAGATGTTCTACAGGCCGAAACTTCCCAACAATTATGTTGTCAGAAA TTTGAAAAAATATCTGAGTCTGCAAAACAAGAACTTATAGATTTTAAGACAAGA AGAGTTGCTGCATTCAGAAAAAATTTAGTGGAACTGGCAGAGTTAGAACTGAAG CATGCAAAGGGTAATCTACAGTTGCTGCAGAACTGCCTGGCAGTGTTAAATGGA GACACATAA	1319	MTKEEFTKMKQELEAEYLAIFKK TVAMHEVFLCRVAAHPILRRDLN FHVFLEYNQDLSVRGKNKKEKLE DFFKNMVKSADGVIVSGVKDVDD FFEHERTFLLEYHNRVKDASAKS DRMTRSHKSAADDYNRIGSSLYA LGTQDSTDICKFFLKVSELFDKT RKIEARVSADEDLKLSDLLKYYL RESQAAKDLLYRRSRSLVDYENA NKALDKARAKNKDVLQAETSQQL CCQKFEKISESAKQELIDFKTRR VAAFRKNLVELAELELKHAKGNL QLLQNCLAVLNGDT*
Human hGIT1_v1	10	prey5409	582	CACCAGGCTGGAGGCCCAGCACCAGGCCCTGGTCACGCTGTGGCACCAGTTGCA CGTGGACATGAAGAGCCTTCTGGCCTGGCAGAGCCTTCGCCGCGACGTGCAGCT CATCCGCTCGTGGTCCCTGGCCACGTTCCGCACCCTGAAGCCAGAGGAGCAGCG CCAAGCCCTGCACAGCCTGGAGCTGCACTACCAGGCCTTCCTGCGGGACAGCCA GGACGCGGGCGGCTTCGGACCCGAGGACCGGCTGATGGCTGAGCGCGAGTACGG CTCCTGCAGCCACCACTACCAGCAGCTGCTGCAGAGCCTGGAACAGGGTGCACA GGAAGAGTCTCGCTGCCAGCGCTGCATCTCCGAGCTCAAAGACATCCGGCTGCA GCTGGAGGCCTGTGAGACGCGCACCGTGCACCGCCTGCGGCTGCCGCTGGACAA AGAGCCGGCACGGGAGTGTGCCCAGCGCATCGCCGAGCAGCAGAAGGCACAGGC AGAGGTGGAGGGGCTGGGCAAGGGGGTCGCCCGGCTCTCTGCCGAGGCCGAGAA GGTCTTGGCCCTACCAGAGCCATCGCCTGCGGCCCCCACGCTGCGCTCGGAGCT GGAGCTGACGCTGGGCAAGCTGGAGCAGGTCCGCAGCCTGTCTGCCATCTACCT GGAGAAGCTCAAGACCATCAGCCTGGTGATCCGCGGCACGCAGGGGGCCGAGGA GGTGCTCAGGGCCCACGAGGAGCAGCTCAAGGAGGCCCAGGCCGTGCCGGCCAC CCTCCCGGAGCTCGAGGCCACCAAGGCCTCTCTGAAGAAGCTGCGGGCCCAGGC CGAGGCACAGCAGCCCACGTTCGACGCCCTGCGGGATGAGCTGCGGGGGGCACA GGAGGTGGGGGAGCGACTGCAGCAGCGGCACGG	1320	TRLEAQHQALVTLWHQLHVDMKS LLAWQSLRRDVQLIRSWSLATFR TLKPEEQRQALHSLELHYQAFLR DSQDAGGFGPEDRLMAEREYGSC SHHYQQLLQSLEQGAQEESRCQR CISELKDIRLQLEACETRTVHRL RLPLDKEPARECAQRIAEQQKAQ AEVEGLGKGVARLSAEAEKVLAL PEPSPAAPTLRSELELTLGKLEQ VRSLSAIYLEKLKTISLVIRGTQ GAEEVLRAHEEQLKEAQAVPATL PELEATKASLKKLRAQAEAQQPT FDALRDELRGAQEVGERLQQRH
Human	10	prey12823	583	GGAAATTATGGGAAGAGATGTTCAAGAATCATTGAAAAATGGCTCTGCTACAGG	1321	EIMGRDVQESLKNGSATGGGNKV

hGIT1_v1				TGGTGGAAATAAAGTTTATTCTTTTCAGAATAGAAAACACTCTGAAAAGATGGCTAAATTAGCTTCAGAACTAGCAAAAACACCACAAAAAAGTGTTTCATTCAGTTTGAAGAATGATCCTGAGATTACGATAAACGTTCCTCAAAGTAGCAAGGGCCATTCTGCTTCAGACAAGGTTCAACCGAAGAACAATGACAAAAGTGAATTTCTGTCAACAGCACCTCGTAGTCTAAGAAAAAGATTAATAGTTCCAAGGTCTCATTCTGACAGTGAAAGCGAATATTCTGCTTCCAACTCAGAGGATGATGAAGGGGTTGCACAGGAACATGAAGAGGACACTAATGCAGTCATATTCAGCCAAAAGATTCAAGCTCAGAATAGAGTAGTTTCAGCTCCTGTTGGCAAAGAAACACCTTCTAAGAGAATGAAAAGAGATAAAACAAGTGACTTAGTAGAAGAATATTTTGAAGCTCACAGCAGTTCAAAAGTTTTAACCTCTGATAGAACACTGCAGAAGCTAAAGAGAGCTAAACTGGATCAGCAAACTTTGCGTAACTTATTGAGCAAGGTTTCCCCTTCCTTTTCTGCCGAACTTAAACAACTAAATCAACAGTATGAAAAATTATTTCATAAATGGATGCTGCAATTACACCTTGGGTTCAACATTGTGCTTTATGGTTTGGGTTCTAAGAGAGATTTACTAGAAAGGTTTCGAACCACTATGCTGCAAGATTCCATTCACGTTGTCATCAATGGCTTCTTTCCTGGAATCAGTGTGAAATCAGTCCTGAATTCTATAACAGAAGAAGTCCTCGATCATATGGGTACTTTCCGCAGTATACTGGATCAGCTAGACTGGATAGTAAACAAATTTAAAGAAGATTCTTCTTTAGAACTCTTCCTTCTCATCCACAATTTGGATAGCCAGATGTTGAGAGGAGAGAAGAGCCAGCAAATCATTGGTCAGTTGTCATCTTTGCATAACATTTACCTTATAGCATCCATTGACCACCTCAATGCTCCTCTCATGTGGGATCATGCAAAGCAGAGTCTTTTTAACTGGCTCTGGTATGAAACTACTACATACAGTCCTTATACTGAAG		YSFQNRKHSEKMAKLASELAKTPQKSVSFSLKNDPEITINVPQSSKGHSASDKVQPKNNDKSEFLSTAPRSLRKRLIVPRSHSDSESEYSASNSEDDEGVAQEHEEDTNAVIFSQKIQAQNRVVSAPVGKETPSKRMKRDKTSDLVEEYFEAHSSSKVLTSDRTLQKLKRAKLDQQTLRNLLSKVSPSFSAELKQLNQQYEKLFHKWMLQLHLGFNIVLYGLGSKRDLLERFRTTMLQDSIHVVINGFFPGISVKSVLNSITEEVLDHMGTFRSILDQLDWIVNKFKEDSSLELFLLIHNLDSQMLRGEKSQQIIGQLSSLHNIYLIASIDHLNAPLMWDHAKQSLFNWLWYETTTYSPYTE
Human hGIT1_v1	10	prey33313	584	TAAGATGACTACTTCCAATTTAACCTCCTTCCCATTATTGAACTGTAGCAGTCACCATCCCATAGTCCCATTTTTCAATCACTGACTTTTATATGCCTTATCACAAATCCTGAGGGACTCTACAGAAAAAGCCGAAGCTTCTTCCCACCAGCAATCAAAACCATACAAACCTCTGTCAGCTGCTTCAGTTGGTTTN	1322	KMTTSNLTSFPLLNCSSHHPIVPFFNH*LLYALSQILRDSTEKAEASSHQQSKPYKPLSAASVGX
Human hGIT1_v1	10	prey33315	585	NNNGGCNCCCCCCNGNCGNGTCCNNCNCCCGNTCNTNGCGNCCNGNNCNCGNANNNCNAGNACNNCGCTNCCCNNNCAANCACNANCTTGAAAGAANACTCCNANAGAAAGNAGCCNGCTTATCAACAGCGCCTTNANAATTGGGANATCAGAGAACGAAAGAAAACCCGGGAATATGAGAAAGAAGCTGAAAGAGAAGAAGAAAGAAGAAGAGAAATGGCCAAAGAAGCTAAACGACTAAAAGAATTCTTAGAAGACTATGATGATGATAGAGATGACCCCAAATATTACAGAGGAAGTGCTCTTCAGAAAAGGTTGCGTGATAGAGAAAAGGAAATGGAAGCAGATGAACGAGATAGGAAGAG	1323	XGXPXXXPXPXXXXXXXXXXXAXXXXTXLKEXSXRKXPAYQQRLXNWXIRERKKTREYEKEAEREEERRREMAKEAKRLKEFLEDYDDDRDDPKYYRGSALQKRLRDREKEMEADERDRK
Human hGIT1_v1	10	prey33327	586	TTCAAGCCAAGACCTACCTGGGGGAGGAGGGCAAGAGGGTGAGGAACTACTTCTGTTGTGGGCTCCAGGACTTCACCCCGGAGCCGGACTCTTACGACGTGATCTGGATCCAGTGGGTGATAGGCCACCTCACCGATCAGCACCTGGCCGAGTTCCTGCGGCGCTGCAAGGGCAGCCTCCGCCCCAACGGCATCATCGTCATCAAAGACAACATGGCCCAGGAGGGCGTGATTCTGGACGACGTGGACAGCAGCGTGTGCCGGGACCTTGACGTGGTCCGCAGGATCATCTGCAGTGCAGGCCTCAGCCTCCTG	1324	QAKTYLGEEGKRVRNYFCCGLQDFTPEPDSYDVIWIQWVIGHLTDQHLAEFLRRCKGSLRPNGIIVIKDNMAQEGVILDDVDSSVCRDLDVVRRIICSAGLSLL
Human	10	prey33329	587	ACCCGGGGGTGATTCTGTGTGTGGGGAGACCCACCGGGCCCTGCAGGGGGCCAT	1325	TRG*FCVWGDPPGPAGGHEAAG

hGIT1_v1				GGAGAAGCTGCAGGTGAATGAGTCTCTCCTGGCATGGGTCAAGAAGGGTGGGGG CGGGGCAGGTCGCTGCCGATATATGACTCCATTATTTGGTTCCAGAGCCGCTT TATGGAGCTCATGCAGGAGAAGGCAGACCTGAAGGAGAGGGTAGAGGAACTGGA ACATCGCTGCATCCAGCTTTCTGGAGAGACAGACACCATTGGAGAGTACATTGC ACTGTACCAGAGCCAGAGGGCAGTGCTGAAGGAGCGGCACCGGGAGAAGGAGGA GTACATCAGCAGGCTGGCCCAAGACAAGGAG		E*VSPGMGQEGWGRGRSLPIYDS IILVPEPLYGAHAGEGRPEGEGR GTGTSLHPAFWRDRHHWRVHCTV PEPEGSAEGAAPGEGGVHQQAGP RQG
Human hGIT1_v1	10	prey33333	588	CGAAGGACGAGGAGCGTGCGGTCAAGGACGAGCTGCTGGGCGAGAAGCCCGAGG TCAAGCAGAAGTGGGCGTCGCGGCTGCTGGCCAAGCTGCGCAAGGACATCCGGC CCGAGTGCCGCGAGGACTTCGTGCTGAGCATCACCGGCAAGAAGGCGCCGGGCT GCGTGCTCTCCAACCCCGACCAGAAGGGCAAGATGCGGCGCATCGACTGTCTCC GGCAGGCGGACAAGGTGTGGCGGCTGGACCTGGTCATGGTCATCCTGTTCAAGG GCATCCCGCTGGAGAGCACCGACGGCGAGCGCCTGGTCAAGGCTGCGCAGTGCG GTCACCCGGTCCTGTGCGTGCAGCCGCACCACATTGGCGTGGCCGTCAAGGAGC TGGACCTCTACCTGGCCTACTTCGTGCGTGAGCGAGATGCAGAGCAAAGCGGCA GTCC	1326	KDEERAVKDELLGEKPEVKQKWA SRLLAKLRKDIRPECREDFVLSI TGKKAPGCVLSNPDQKGKMRRID CLRQADKVWRLDLVMVILFKGIP LESTDGERLVKAAQCGHPVLCVQ PHHIGVAVKELDLYLAYFVRERD AEQSGS
Human hGIT1_v1	10	hgx159	589	ATGACCGACAATAGCAACAATCAACTGGTAGTAAGAGCAAAGTTTAACTTCCAG CAGACCAATGAGGACGAGCTTTCCTTCTCAAAAGGAGACGTCATCCATGTCACC CGTGTGGAAGAGGGAGGCTGGTGGGAGGGCACACTCAACGGCCGGACCGGCTGG TTCCCCAGCAACTACGTGCGCGAGGTCAAGGCCAGCGAGAAGCCTGTGTCTCCC AAATCAGGAACACTGAAGAGCCCTCCCAAAGGATTTGATACGACTGCCATAAAC AAAAGCTATTACAATGTGGTGCTACAGAATATTTTAGAAACAGAAAATGAATAT TCTAAAGAACTTCAGACTGTGCTTTCAACGTACCTACGGCCATTGCAGACCAGT GAGAAGTTAAGTTCAGCAAACATTTCATATTTAATGGGAAATCTAGAAGAAATA TGTTCTTTCCAGCAAATGCTCGTACAGTCTTTAGAAGAATGCACCAAGTTGCCC GAAGCTCAGCAGAGAGTCGGAGGCTGCTTTTTAAACCTGATGCCACAGATGAAA ACCCTGTACCTCACGTATTGTGCCAATCACCCTTCTGCAGTGAATGTCCTCACG GAACACAGTGAGGAGTTGGGGGAGTTCATGGAGACCAAAGGTGCCAGCAGCCCT GGGATTCTCGTGCTGACCACGGGCCTGAGCAAACCCTTCATGCGCCTGGATAAA TACCCTACGCTGCTCAAAGAGCTCGAGAGACACATGGAGGATTATCATACAGAT AGACAAGATATTCAAAAATCCATGGCTGCCTTCAAAAACCTTTCAGCCCAATGT CAAGAAGTCCGGAAGAGGAAAGAGCTTGAGCTGCAGATCCTGACGGAAGCCATC CGGAACTGGGAGGGCGATGACATTAAAACTCTGGGCAACGTCACTTACATGTCC CAGGTCCTGATTCAGTGTGCCGGAAGTGAGGAAAAGAATGAAAGATATCTTCTA CTCTTCCCAAATGTTTTGCTAATGTTGTCTGCCAGTCCTAGGATGAGTGGCTTT ATCTATCAGGGAAAGCTTCCAACGACAGGAATGACAATCACAAAGCTTGAGGAC AGTGAAAATCATAGAAATGCATTTGAAATATCAGGGAGCATGATTGAGCGGATA TTAGTGTCGTGCAACAACCAGCAGGATCTGCAGGAATGGGTGGAGCACCTACAG AAGCAAACGAAGGTCACGTCTGTGGGAAACCCCACCATAAAGCCTCATTCAGTG CCATCTCATACCCTCCCCTCCCACCCGGTCACTCCGTCCAGCAAGCACGCAGAC	1327	MTDNSNNQLVVRAKFNFQQTNED ELSFSKGDVIHVTRVEEGGWWEG TLNGRTGWFPSNYVREVKASEKP VSPKSGTLKSPPKGFDTTAINKS YYNVVLQNILETENEYSKELQTV LSTYLRPLQTSEKLSSANISYLM GNLEEICSFQQMLVQSLEECTKL PEAQQRVGGCFLNLMPQMKTLYL TYCANHPSAVNVLTEHSEELGEF METKGASSPGILVLTTGLSKPFM RLDKYPTLLKELERHMEDYHTDR QDIQKSMAAFKNLSAQCQEVRKR KELELQILTEAIRNWEGDDIKTL GNVTYMSQVLIQCAGSEEKNERY LLLFPNVLLMLSASPRMSGFIYQ GKLPTTGMTITKLEDSENHRNAF EISGSMIERILVSCNNQQDLQEW VEHLQKQTKVTSVGNPTIKPHSV PSHTLPSHPVTPSSKHADSKPAP LTPAYHTLPHPSHHGTPHTTINW GPLEPPKTPKPWSLSCLRPAPPL RPSAALCYKEDLSKSPKTMKKLL PKRKPERKPSDEEFASRKSTAAL EEDAQILKVIEAYCTSAKTRQTL

				AGCAAGCCCGCGCCGCTGACGCCCGCCTACCACACGCTGCCCCACCCCTCCCACCACGGCACCCCGCACACCACCATCAACTGGGGACCCCTGGAGCCTCCGAAAACACCCAAGCCCTGGAGCCTGAGCTGCCTGCGGCCCGCGCCTCCCCTCCGGCCCTCAGCTGCTCTCTGCTACAAGGAGGATCTTAGTAAGAGCCCTAAGACCATGAAAAAGCTGCTGCCCAAGCGCAAACCTGAACGGAAGCCTTCAGATGAGGAGTTCGCGTCCCGGAAAAGCACAGCTGCTTTGGAAGAAGATGCTCAGATTCTGAAAGTCATTGAAGCTTACTGCACCAGCGCCAAAACAAGGCAAACACTCAATTCAAGTTCACGCAAAGAATCTGCTCCACAAGTTTTGCTTCCAGAAGAAGAGAAAATTATAGTGGAAGAAACTAAAAGTAATGGTCAGACAGTGATAGAAGAAAAGAGTCTTGTGGATACCGTATATGCATTAAAGGATGAAGTTCAAGAATTAAGACAGGACAACAAAAAGATGAAGAAATCTCTAGAGGAAGAACAGAGAGCCCGCAAAGACCTGGAGAAGCTGGTGAGGAAAGTCCTGAAGAACATGAATGATCCTGCCTGGGATGAGACCAATCTATAA		NSSSRKESAPQVLLPEEEKIIVEETKSNGQTVIEEKSLVDTVYALKDEVQELRQDNKKMKKSLEEEQRARKDLEKLVRKVLKNMNDPAWDETNL*
Human hGIT1_v1	10	prey33346	590	TCTCCCAGCCCCGCGTCGCCCCCCGCCGATGGCGCCTCAAGGCTGCAGCCAAGCGCGTCACATTCCCGTCCGACGAGGATATCGTGTCTGGAGCAGTGGAGCCCAAAGACCCCTGGAGACATGCCCAGAATGTGACCGTGGACGAGGTCATCGGCGCCTACAAGCAGGCCTGCCAGAAGCTGAACTGCAGGCAGATCCCCAAGCTCCTCAGGCAGCTGCAGGAATTCACAGACCTCGGGCACCGCCTCGACTGTCTGGACCTGAANGGTGAGA	1328	SPSPASPPADGRLKAAAKRVTFPSDEDIVSGAVEPKDPWRHAQNVTVDEVIGAYKQACQKLNCRQIPKLLRQLQEFTDLGHRLDCLDLXGE
Human hGIT1_v1	10	prey5445	591	GAGTAGTGGTAGGAGTGATGACAACAGAGAGAGCTTGGAAAAGAGAATTCAGACCTACCTTCAGTCAACAAAGCCAATTATTGACTTATATGAAGAAATGGGGAAAGTCAAGAAAATAGATGCTTCTAAATCTGTTGATGAAGTTTTTGATGAAGTTGTGCAGATTTTTGACAAGGAAGGCTAA	1329	SSGRSDDNRESLEKRIQTYLQSTKPIIDLYEEMGKVKKIDASKSVDEVFDEVVQIFDKEG*
Human hGIT1_v1	10	prey3296	592	CCGCCGTGTCTGCAATAGGTTCCATGCCTTCCTGCTCTACCTGGGCTACACCCCGCAGGCGGCCCGTGAAGTGCGCATCATGCAGTTCTGCCACACGCTGCGGGAATTTGCGCTTGAGTATCGGACTTGCCGGGAACGAGTGCTACAGCAGCAGCAGAAGCAGGCCACATACCGTGAGCGCAACAAGACCCGGGGACGCATGATCACCGAGACAGAGAAGTTCTCAGGTGTGGCTGGGGAAGCCCCCAGCAACCCCTCTGTCCCAGTAGCAGTGAGCAGCGGGCCAGGCCGGGGAGATGCTGACAGTCATGCTAGTATGAAGAGTCTGCTGACCAGCAGGCTTGAGGACACCACACACAATCGCCGCAGCAGAGGCATGGTCCAGAGCAGCTCCCCAATCATGCCCACAGTGGGGCCCTCCACTGCATCCCCAGAAGAACCCCCAGGCTCCAGTTTACCCAGTGATACATCAGATGAGATCATGGACCTTCTGGTGCAGTCAGTGAC	1330	RRVCNRFHAFLLYLGYTPQAAREVRIMQFCHTLREFALEYRTCRERVLQQQQKQATYRERNKTRGRMITETEKFSGVAGEAPSNPSVPVAVSSGPGRGDADSHASMKSLLTSRLEDTTHNRRSRGMVQSSSPIMPTVGPSTASPEEPPGSSLPSDTSDEIMDLLVQSV
Human hGIT1_v1	10	prey33348	593	CAAATTCAAAGCACATTTGGTTTATTAACCCTTGCTCCTTGCATGGCTCATTAGGTTCAAATTATAACTGATTTACATTTTCAGCTATATTTACTTTTTAAATGCTTGAGTTTCCCATTTTAAAATCTAAACTAGACATCTTAATTGGTGAAAGTTGTTTAAACTACTTATTGTTGGTAGGCACATCGTGTCAAGTGAAGTAGTTTTATAGGTATGGGTTTTTTCTCCCCCTTCACCAGGGTGGGTGGAATAAGTTGATTTGGCCAATGTGTAATATTTAAACTGTTCTGTAAAATAAGTGTCTGGCCATTTGGTATGATTTCTGTGTGTGAAAGGTCCCAAAATCAAAATGGTACATCCATAATCAGCCACCATTTA	1331	QIQSTFGLLTLAPCMAH*VQIITDLHFQLYLLFKCLSFPF*NLN*TS*LVKVV*TTYCW*AHRVK*SSFIGMGFFSPFTRVGGIS*FGQCVIFKLFCKISVWPFGMISVCERSQNQNGTSIISHHLTLPCSKTKTKGRWLVG*GGGVF*FLEFGKQTALLC

				ACCCTTCCTTGTTCTAAAACAAAAACCAAAGGGCGCTGGTTGGTAGGGTGAGGT GGGGGAGTATTTTAATTTTTGGAATTTGGGAAGCAGACAGCTTTACTTTGTAAG GTTGGAACAGCAGCACTATACAAAATATAAACCAAAAACCTTTACTGTTTCTAA ATTTCCTAGATTGCTATTATTTGGTTGTAAGTTGAGTATTCCACAGAAAGTGGT AATTATCTCTCTCTCTTCCTCCATTAGAAAATTAGGTAAATAATGGATTCCTAT AATGGGAGCATCACCACTTATTAAAACACACATAGAATGATGAATTAAAAAAGT TTTCTAGGATTGTCTTTTATTCTGCCACATTTATTGATAAACAGTGAAGGAATT TTTAAAAAATTTTTAAGAATTGTTTGTCACGTCATTTTTAGAAATGTTCTACCT GTATATGGTAATGTCCAGTTTTAAAAATATTGGACATCTTCAATCTTAAACATT TCTATTTAGCTGATTGGTTCTCACATATACTTCTAAAAGAAACTTTTATGTTAT AAGAGTTACTTTTTGGATAAGATTTATTAATCTCAGTTACCTACTATTCTGACA TTTTAGGAAGGAGGTAATTGTTTTTAATGATGGATAAACTTGTGCTGGTGTTTT GGATCTTATGATGCTGAGCATGTTCTGCACTGGTGCTAATGTCTAATATAATTT TATATTTACACACATACGTGCTACCCAGAGATTAATTTAGTCCATATGAACTAT TGACCCATTGTTCATTGAGACAGCAACATACGCACTCCTAAATCAGTGTGTTTA GACTTTTCAAGTATCTAACTCATTTCCAAACATGTACCATGTTTTATAAACCTC TTGATTTCCAGCAACATACTATAGAAAACACCTGCTACTCAAAACACAACTTCT CAGTGTCATCCATTGCTGTCGTGAGAGACAACATAGCAATATCTGGTATGTTGC AAGCTTTCAAGATAGCCTGAACTTAAAAAGTTGGTGCATTAGTTGTATCTGATG GATATAAATTTGCCTCCTAGTTCACTTTGTGTCAAGAGCTAAAACTGTGAACCT AACTTTCTCTTATTGGTGGGTAATAACTGAAAATAAAGATTTATTTTCATGCTC AAAAAAAAAAAAAAAAAA		KVGTAALYKI*TKNLYCF*IS*I AIIWL*VEYSTESGNYLSLFLH* KIR*IMDSYNGSITTY*NTHRMM N*KSFLGLSFILPHLLINSEGIF KKFLRIVCHVIFRNVLPVYGNVQ F*KYWTSSILNISI*LIGSHIYF *KKLLCYKSYFLDKIY*SQLPTI LTF*EGGNCF**WINLCWCFGSY DAEHVLHWC*CLI*FYIYTHTCY PEINLVHMNY*PIVH*DSNIRTP KSVCLDFSSI*LISKHVPCFINL LISSNIL*KTPATQNTTSQCHPL LS*ETT*QYLVCCKLSR*PELKK LVH*LYLMDINLPPSSLCVKS*N CEPNFLLLVGNN*K*RFIFMLKK KKKK
Human hGIT1_v1	10	prey33349	594	CCAGTATTAGAGAACAATGGACTTGCCCTAAAAGGGCCTGTAGGGAGTGGTAGT TCTGGCATTAATATTCAGTGCAGTACTATAGGCCAGATGCCTAACAATCAGAGT ATTAACTCTAAAGTGAGTGGTGGTTCTNCCCNTGGGGCCTGGGGNNANNNTTNG NGNAACTTGTNAATGTGANGTGGGNAGTGCNCGGGANCNGTTGGTTGCGGNGGG NGGGGNNNGAGGGGGTGTNGCNGCNNGNNGGTGGTCTGGNGGNCGCGCTGGGNG CTNCGTGGGNGNGGGNNGGAGGCGGGGGGGGNGGG	1332	PVLENNGLALKGPVGSGSSGINI QCSTIGQMPNNQSINSKVSGGSX XGAWGXXXXNLXM*XGXCXGXVG CGGXGXRGCXXXXVVWXXRWXLR GXGXEAGGX
Human hGIT1_v1	10	prey575	595	ATCCAAGGCTGAGAAAGAAAAAGGAAAGACAAAGCAGGAAAAACTGAAGGAAAA AGTCAAGAGGGAAAAGAAGGAGAAGGTTAAAATGAAGGAAAAGGAGGAGGTGAC CAAAGCCAAGCCAGCCTGTAAAGCAGATAAGACCCTGGCCACACAGAGGCGCTT GGAGGAACGGCAGAAGCAGCAGATGATCTTGGAGGAAATGAAGAAGCCGACAGA GGATATGTGTCTGACTGACCACCAGCCCCTGCCTGACTTCTCACGAGTCCCTGG TCTGACATTGCCCAGTGGAGCCTTCTCAGACTGCTTGACCATTGTGGAGTTCCT GCATAGCTTTGGCAAGGTGCTGGGCTTTGATCCTGCCAAAGATGTGCCTAGCCT GGGGGTCCTGCAGGAGGGACTCCTGTGTCAAGGTGACAGCTTGGGTGAGGTGCA AGACCTGCTGGTCAGGCTGCTGAAGGCTGCACTCCATGATCCTGGCTTTCCCTC CTACTGTCAGTCCCTAAAGATCTTGGGGGAGAAGGTGTCTGAAATCCCACTGAC AAGAGACAATGTGTCAGAGATCCTGCGCTGCTTCCTTATGGCATATGGAGTAGA	1333	SKAEKEKGKTKQEKLKEKVKREK KEKVKMKEKEEVTKAKPACKADK TLATQRRLEERQKQQMILEEMKK PTEDMCLTDHQPLPDFSRVPGLT LPSGAFSDCLTIVEFLHSFGKVL GFDPAKDVPSLGVLQEGLLCQGD SLGEVQDLLVRLLKAALHDPGFP SYCQSLKILGEKVSEIPLTRDNV SEILRCFLMAYGVEPALCDRLRT QPFQAQPPQQKAAVLAFPVHELN GSTLIINEIDKTLESMSSYRKNK

				GCCAGCCCTCTGTGACCGCCTGCGCACCCAGCCTTTTCAGGCCCAGCCACCCCA GCAGAAGGCTGCTGTCCTGGCCTTCCCTGTGCATGAGCTCAATGGCTCCACCCT CATCATCAATGAGATTGACAAGACTCTGGAGAGTATGTCCAGCTACAGGAAAAA CAAGTGGATTGTTGAAGGCCGGCTCCGGAGGCTGAAAACTGTTCTGGCCAAGCG AACTGGGCGGTCTGAAGTAGAGATGGGAAGGC		WIVEGRLRRLKTVLAKRTGRSEV EMGR
Human hGIT1_v1	10	prey9593	596	TCACCAATCTCATGAGGAGAGGGAACATGCTGAGAAACTGATGAAGCTGCAGAA CCAACGAGGTGGCCGAATCTTCCTTCAGGATATCAAGAAACCAGACTGTGATGA CTGGGAGAGCGGGCTGAATGCAATGGAGTGTGCATTACATTTGGAAAAAAATGT GAATCAGTCACTACTGGAACTGCACAAACTGGCCACTGACAAAAATGACCCCCA TTTGTGTGACTTCATTGAGACACATTACCTGAATGAGCAGGTGAAAGCCATCAA AGAATTGGGTGACCACGTGACCAACTTGCGCAAGATGGGAGCGCCCGAATCTGG CTTGGCGGAATATCTCTTTGACAAGCACACCCTGGGAGACAGTGATAATGAAAG CTAAGCCTCGGGCTAATTTCCCCATAGCCGTGGGGTGACTTCCCTGGTCACCAA GGCAGTGCATGCATGTTGGGGTTTCCTTTA	1334	HQSHEEREHAEKLMKLQNQRGGR IFLQDIKKPDCDDWESGLNAMEC ALHLEKNVNQSLLELHKLATDKN DPHLCDFIETHYLNEQVKAIKEL GDHVTNLRKMGAPESGLAEYLFD KHTLGDSDNES*ASG*FPHSRGV TSLVTKAVHACWGFL
Human hGIT1_v1	10	prey33350	597	GGTGGGGAAGGAGCCAGGGTCAAGAGGGGAAAGGACTCAGAACAGCTAACCAGC ANTTCTGGGAGACAGAGATGTTGTCTACCTGCCATNCCCATTCTGCCCCTTGAT GTACTTCATATGTATGTCCTGANATTCAGTTCATTATGNNACCTNNNTTCCNTC NNGGNNANCNTCTCCCNTTCNCTGNCNTTNGGNGTNNTTTNCCTTNTTNTTTCT CNCCNATNNNNCANCGCNTNNGGNCCTGNGCTCCCNNNTNTCCNNTAANNTTTA GGCTTGCTCCNCCGNGNNNGNTGGNGTAGGGCTGANCCAGGANNAGGNGGANGG GGGGN	1335	GGEGARVKRGKDSEQLTSXSGRQ RCCLPAXPILPLDVLHMYVLXFS SLXXLXSXXXXXSXSLXXGVXXL XXSXXXXXAXGPXLPXXX*XLGL LXRXXWXRAXPGXGGXG
Human hGIT1_v1	10	prey19772	598	GTGCCGCAGGGCGGGCCCGTGCTCTGCAGGGACGAGATGGAGGAGTGGTCTGCA TCAGAGGCCAACCTTTTCGAGGAAGCCCTGGAAAAATATGGGAAGGATTTCACG GACATTCAGCAAGATTTTCTCCCGTGGAAGTCGCTGACCAGCATCATTGAGTAC TACTACATGTGGAAGACCACCGACAGATACGTGCAGCAGAAACGCTTGAAAGCA GCTGAAGCTGAGAGCAAGTTAAAGCAAGTTTATATTCCCAACTATAACAAGCCA AATCCGAACCAAATCAGCGTCAACAACGTCAAGGCCGGTGTGGTGAACGGCACG GGGGCGCCGGGCCAGAGCCCTGGGGCTGGCCGGGCCTGCGAGAGCTGTTACACC ACACAGTCTTACCAGTGGTATTCTTGGGGTCCCCCTAACATGCAGTGTCGTCTC TGCGCATCTTGTTGGACATATTGGAAGAAATATGGTGGCTTGAAAATGCCAACC CGGTTAGATGGAGAGAGGCCAGGACCAAACCGCAGTAACATGAGTCCCCACGGC CTCCCAGCCCGGAGCAGCGGGAGCCCCAAGTTTGCCATGAAGACCAGGCAGGCT TTCTATCTGCACACGACGAAGCTGACGCGGATCGCCCGGCGCCTGTGCCGTGAG ATCCTGCGCCCGTGGCACGCTGCGCGGAACCCCTACCTGCCCATCAACAGCGCG GCCATCAAGGCCGAGTGCACGGCGCGGCTGCCCGAAGCCTCCCAGAGCCCGCTG GTGCTGAAGCAGGCGGTACGCAAGCCGCTGGAAGCCGTGCTTCGGTATCTTGAG ACCCACCCCCGCCCCCCC	1336	VPQGGPVLCRDEMEEWSASEANL FEEALEKYGKDFTDIQQDFLPWK SLTSIIEYYYMWKTTDRYVQQKR LKAAEAESKLKQVYIPNYNKPNP NQISVNNVKAGVVNGTGAPGQSP GAGRACESCYTTQSYQWYSWGPP NMQCRLCASCWTYWKKYGGLKMP TRLDGERPGPNRSNMSPHGLPAR SSGSPKFAMKTRQAFYLHTTKLT RIARRLCREILRPWHAARNPYLP INSAAIKAECTARLPEASQSPLV LKQAVRKPLEAVLRYLETHPRPP
Human hGIT1_v1	10	prey19182	599	CAGACCTTGAATGGGATGCAGGTCATAAAACCAATGTCCAGCAGTGTTACTGCT ATTGTGGAGGCCCTGGAGACTGGTATTTGAAGATGCTACAGTGCTGCAAATGTA	1337	DLEWDAGHKTNVQQCYCYCGGPG DWYLKMLQCCKCKQWFHEACVQC

				AGCAGTGGTTTCATGAGGCTTGTGTGCAATGCCTTCAAAAGCCAATGCTATTTG GAGACAGATTTTATACGTTTATATGCTCTGTCTGCAGTTCTGGACCAGAATACC TCAAACGTCTACCATTACAGTGGGTAGATATAGCACACCTATGCCTTTACAACC TAAGTGTTATTCATAAGAAGAAATACTTTGATTCTGAACTTGAGCTTATGACAT ACATTAATGAAAACTGGGATAGATTGCACCCTGGAGAGCTGGCAGACACACCGA AATCTGAAAGATATGAGCATGTTCTGGAGGCATTAAATGATTACAAGACCATGT TTATGTCTGGGAAAGAAATAAAGAAGAAGAAGCATTTGTTTGGGTTGCGAATTC GTGTTCCTCCTGTGCCACCAAATGTGGCTTTCAAAGCAGA		LQKPMLFGDRFYTFICSVCSSGP EYLKRLPLQWVDIAHLCLYNLSV IHKKKYFDSELELMTYINENWDR LHPGELADTPKSERYEHVLEALN DYKTMFMSGKEIKKKKHLFGLRI RVPPVPPNVAFKA
Human hGIT1_v1	10	prey5548	600	CGAGAACCAGGAGATCTACCAGAAGGCCTTCGACCTCATTGAGCACTACTTTGG TGTAGAAGACGATGATAGCAGCCTGGCTCCCCAAGTCGATGAAACGCAACAGCA GTTCATCTTCCAGCAGCCTGAGGCCCCCATGGAGGGCTTCCAGCTATAA	1338	ENQEIYQKAFDLIEHYFGVEDDD SSLAPQVDETQQQFIFQQPEAPM EGFQL*
Human hGIT1_v1	10	prey9818	601	TCCGGCCCATTGACGTGGCGCCTCACCCCTGCTGAAGTGCGCCAGGTGCTGGCC CTGCGGATAGACTTCCGCACTGAAGATATCAAGAGGCTGCGCCTGTAG	1339	SGPLTWRLTPAEVRQVLALRIDF RSEDIKRLRL*
Human hGIT1_v1	10	prey33358	602	CCGACCGCCGTCGCTGTTGGCCACCTTGCAGCGCTGGGGCACAACACAGCCCAA ATCCCCCTGTCTGACTGCCTTGGATACAACTGGGAAAGCCGTCTACACTCTCAC CTATGGCAAGTGTTAACAGAAAGCAGTTGTGCTTCTGGGTTAGCTGTAGAATGT CACACACATAACACAGCATAGACATACAGCTTGATAAATATTCCTGAGAAACCA GCACAGCTGGCAGATAAATAGAACATTGACCTATACCAGGTACCCATCCCACCA GAGGGGACCACTCACTGATGCATGGTGACTGCCATTGCTCTGGGTTCAAGTGTT TGGAGCGTTCTATGTATGCATTCTGAACAGTGTAGTTTAGTTTCGTCTTATTTT CAACTTTGTATAAGGGGAATCATGCAGTATGTATTTCTGTGTGTTTGACATCTT TTGGTTCCATACTATGTTTTTTTTGTAACACAAATAGTAAGCATATATACAACC TGATGAATTCACAGAGTGAATATGGTCCTGTAATCAGCACTCCAAGCAGAAGTG TTGCTAGGTTCAAAGCAC	1340	PTAVAVGHLAALGHNTAQIPLSD CLGYNWESRLHSHLWQVLTESSC ASGLAVECHTHNTA*TYSLINIP EKPAQLADK*NIDLYQVPIPPEG TTH*CMVTAIALGSSVWSVLCMH SEQCSLVSSYFQLCIRGIMQYVF LCV*HLLVPYYVFFVTQIVSIYT T**IHRVNMVL*SALQAEVLLGS KH
Human hGIT1_v1	10	prey32017	603	CTCCAATGAGCCCTCTGGGAATAACCCTCCCACACACCTCTCCTTGGACCCCAC AAATGCTGAAAACACTGCCTCTCAGTCTCCAAGGACCCGTGGTTCCCGGCGGCA GATCCAGCGTTTGGAGCAGCTGCTGGCGCTCTATGTGGCAGAGATCCGGCGGCT GCAGGAAAAGGAGTTGGATCTCTCAGAATTGGATGACCCAGACTCCGCATACCT GCAGGAGGCACGGTTGAAGCGTAAGCTGATCCGCCTCTTTGGGCGACTATGTGA GCTGAAAGACTGCTCTTCACTGACCGGCCGTGTCATAGAGCAGCGCATCCCCTA CCGTGGCACCCGCTACCCAGAGGTTAACAGGCGCATTGAGCGGCTCATCAACAA GCCAGGGCCTGATACCTTCCCTGACTATGGGGATGTGCTTCGGGCTGTAGAGAA GGCAGCTGCCCGACACAGCCTTGGCCTCCCCCGACA	1341	SNEPSGNNPPTHLSLDPTNAENT ASQSPRTRGSRRQIQRLEQLLAL YVAEIRRLQEKELDLSELDDPDS AYLQEARLKRKLIRLFGRLCELK DCSSLTGRVIEQRIPYRGTRYPE VNRRIERLINKPGPDTFPDYGDV LRAVEKAAARHSLGLPR
Human hGIT1_v1	10	prey33361	604	CTNTANCNGNAANAANGNATCNAAGAATCTAGCANCGNCAGCANGGGCCNCNAA NTGGGGCNTANATNNTCANTNCCCATNGTNGGNCTTCCCNTTTNGTATCGATAT CTGCNTTCTGACAGGCAGGTCGGCCANTNTTGTTNTGNGCANTGTACGGAGACT TGACGTATGAAATCAGTNATCNTGAAAGNACGTGAAAAGCATGGNCNNTNTCNT CACTGAAGGGNAAGNTCCTTGANCCAAAGNCATGTTGNGATCAACAACATCCCC	1342	LXXXXXIXESSXXSXGXXXGXXX SXPXVGLPXXYRYLXSDRQVGXX CXXXCTET*RMKSVIXKXREKHG XXXH*RXXSLXQXHVXINNIPNR XQLXGKRXKGXIVQPCQXPXXA*

				AATCGCNCNCAGTTATNGGGAAAGAGGTNCAAAGGAGNCATAGTCCAACCGTGC CAACNNCCANGANGGGCNTGANCNCC		X
Human hGIT1_v1	10	prey21907	605	GATAGTTGA	1343	DS*
Human hGIT1_v1	10	prey33364	606	ATGAGCAACATCTGTCAGAGGCTCTGGGAGTACCTAGAACCCTATCTCCCCTGT TTGTCCACGGAGGCAGACAAGTCAACCGTGATTGAAAATCCAGGGGCCCTTTGC TCTCCCCAGTCACAGAGGCATGGCCACTACTTTGTGGCTTTGTTTGATTACCAG GCTCGGACTGCTGAGGACTTGAGCTTCCGAGCAGGTGACAAACTTCAAGTTCTG GACACTTTGCATGAGGGCTGGTGGTTTGCCAGACACTTGGAGAAAAGACGAGAT GGCTCCAGTCAGCAACTACAAGGCTATATTCCTTCTAACTACGTGGCTGAGGAC AGAAGCCTACAGGCAGAGCCGTGGTTCTTTGGAGCAATCGGAAGATCAGATGCA GAGAAACAACTATTATATTCAGAAAACAAGACCGGTTCCTTTCTAATCAGAGAA AGTGAAAGCCAAAAAGGAGAATTCTCTCTTTCAGTTTTAGATGGAGCAGTTGTA AAACACTACAGAATTAAAAGACTGGATGAAGGGGGATTTTTTCTCACGCGAAGA AGAATCTTTTCAACACTGAACGAATTTGTGAGCCACTACACCAAGACAAGTGAC GGCCTGTGTGTCAAGCTGGGGAAACCATGCTTAAAGATCCAGGTCCCAGCTCCA TTTGATTTGTCGTATAAAACCGTGGACCAATGGGAGATAGACCGCAACTCCATA CAGCTTCTGAAGCGATTGGGATCTGGTCAGTTTGGCGAAGTATGGGAAGGTCTG TGGAACAATACCACTCCAGTAGCAGTGAAAACATTAAAACCAGGTTCAATGGAT CCAAATGACTTCCTGAGGGAGGCACAGATAATGAAGAACCTAAGACATCCAAAG CTTATCCAGCTTTATGCTGTTTGCACTTTAGAAGATCCAATTTATATTATTACA GAGTTGATGAGACATGGAAGTCTGCAAGAATATCTCCAAAATGACACTGGATCA AAAATCCATCTGACTCAACAGGTAGACATGGCGGCACAGGTTGCCTCTGGAATG GCCTATCTGGAGTCTCGGAACTACATTCACAGAGATCTGGCTGCCAGAAATGTC CTCGTTGGTGAACATAATATCTACAAAGTAGCAGATTTTGGACTTGCCAGAGTT TTTAAGGTAGATAATGAAGACATCTATGAATCTAGACACGAAATAAAGCTGCCG GTGAAGTGGACTGCGCCCGAAGCCATTCGTAGTAATAAATTCAGCATTAAGTCC GATGTATGGTCATTTGGAATCCTTCTTTATGAAATCATTACTTATGGCAAAATG CCTTACAGTGGTATGACAGGTGCCCAGGTAATCCAGATGTTGGCTCAAAACTAT AGACTTCCGCAACCATCCAACTGTCCACAGCAATTTTACAACATCATGTTGGAG TGCTGGAATGCAGAGCCTAAGGAACGACCTACATTTGAGACACTGCGTTGGAAA CTTGAAGACTATTTTGAAACAGACTCTTCATATTCAGATGCAAATAACTTCATA AGATGA	1344	MSNICQRLWEYLEPYLPCLSTEA DKSTVIENPGALCSPQSQRHGHY FVALFDYQARTAEDLSFRAGDKL QVLDTLHEGWWFARHLEKRRDGS SQQLQGYIPSNYVAEDRSLQAEP WFFGAIGRSDAEKQLLYSENKTG SFLIRESESQKGEFSLSVLDGAV VKHYRIKRLDEGGFFLTRRRIFS TLNEFVSHYTKTSDGLCVKLGKP CLKIQVPAPFDLSYKTVDQWEID RNSIQLLKRLGSGQFGEVWEGLW NNTTPVAVKTLKPGSMDPNDFLR EAQIMKNLRHPKLIQLYAVCTLE DPIYIITELMRHGSLQEYLQNDT GSKIHLTQQVDMAAQVASGMAYL ESRNYIHRDLAARNVLVGEHNIY KVADFGLARVFKVDNEDIYESRH EIKLPVKWTAPEAIRSNKFSIKS DVWSFGILLYEIITYGKMPYSGM TGAQVIQMLAQNYRLPQPSNCPQ QFYNIMLECWNAEPKERPTFETL RWKLEDYFETDSSYSDANNFIR*
Human hGIT1_v1	10	prey33367	607	GTTCACTGTGAAACTCTGCGTATTGGGAAGGCCTGGCCTCAGTCATCAGGCCAG GAGAGGTACTGGACGCCGCGCACGCACTCGTCTGCCAGCGAGGCCCAAAGGGGA AGCCTAGCGGAGCTCAGTGTGGCAGCTGCTGGCCTCTGGGCCGACTGTGATCAA CCACTCTATGATTGTCCTATGTGTGGGCTCATATGTACAAATTACCATATTCTN NAGGANCATGNTGGCTTGCATTTGNAAGAAGACAGNCTTTGNGGGGCGNNTGGA TGGANCGNCACGTGTTCTGNTGGAN	1345	VHCETLRIGKAWPQSSGQERYWT PRTHSSASEAQRGSLAELSVAAA GLWADCDQPLYDCPMCGLICTNY HILXXHXGLHLXEDXLXGAXGWX XTCSXG

Human hGIT1_v1	10	prey5574	608	TGCCGCGGCTGTGGAGGCGGCGGCGCCTATGGGTGCCCTATGGGGCCTCGTGCA CGACTTCGTCGTGGGTCAGCAAGAGGGCCCCGCTGACCAGGTGGCTGCAGATGT GAAATCTGGCAACTATACAGTGTTACAAGTTGTGGAAGCCCTTGGGTCCTCTCT AGAGAATCCAGAACCCCGAACTCGGGCACGAGGAATCCAGCTTTTGTCACAGGT GCTACTCCACTGTCACACCTTGCTCCTGGAGAAGGAAGTGGTACACCTGATACT GTTCTATGAGAACCGGCTGAAGGACCATCATCTTGTGATCCCATCTGTCCTGCA GGGTTTGAAGGCACTTAGCCTGTGTGTGGCCCTGCCCCCAGGGCTGGCTGTTTC TGTGCTTAAAGCCATCTTCCAGGAAGTGCATGTACAGTCCCTGCCACAGGTGGA CCGACACACAGTCTACAATATCATCACCAATTTTATGCGAACCCGGGAAGAAGA GCTAAAGAGCCTAGGAGCTGACTTCACCTTTGGCTTCATCCAGGTGATGGATGG GGAAAAGGATCCCCGTAATCTTCTGGTGGCCTTCCGCATCGTCCATGACCTCAT CTCCAGGGACTATAGCCTGGGACCCTTTGTGGAGGAGTTGTTTGAAGTGACATC CTGTTATTTCCCTATCGATTTTACCCCTCCACCTAATGATCCCCATGGTATCCA GAGAGAAGACCTCATCCTGAGTCTTCGCGCTGTGCTGGCTTCTACACCACGATT TGCTGAGTTTCTGCTGCCCCTGTTGATTGAGAAAGTGGATTCTGAGGTTCTGAG TGCCAAGTTGGATTCTCTACAGACTCTGAATGCTTGCTGTGCTGTGTATGGACA GAAGGAACTGAAGGACTTCCTCCCCAGCCTTTGGGCTTCTATCCGCAGAGAGGT GTTCCAGACGGCAAGTGAGCGGGTGGAGGCAGAGGGCCTGGCGGCCCTCCACTC CCTGACTGCGTGTTTGTCTCGCTCTGTGCTGAGGGCTGATGCTGAGGACCTCCT TGACTCCTTCCTTAGCAACATTCTACAGGACTGCAGGCACCACCTGTGTGAACC GGACATGAAACTGGTGTGGCCTAGTGCAAGCTGTTGCAGGCAGCTGCAGGTGCA TCTGCCCGGGCCTGTGACTCTGTCACCAGCAATGTACTGCCTTTACTGCTGGAA CAGTTCCACAAGCACAGTCAGAGCAGCCAGCGGCGGGACAATCCTTGAAATGCT CCTGGGTTTCTTGAAGCTGCAGCAGAAATGGAGCTATGAAGACAAAGATCAAAG GCCTCTGAATGGCTTCAAGGACCAGCTGTGCTCACTGGTATTCATGGCTCTAAC AGACCCCAGCACCCAGCTTCAGCTTGTTGGCATCCGT	1346	AAAVEAAAPMGALWGLVHDFVVG QQEGPADQVAADVKSGNYTVLQV VEALGSSLENPEPRTRARGIQLL SQVLLHCHTLLLEKEVVHLILFY ENRLKDHHLVIPSVLQGLKALSL CVALPPGLAVSVLKAIFQEVHVQ SLPQVDRHTVYNIITNFMRTREE ELKSLGADFTFGFIQVMDGEKDP RNLLVAFRIVHDLISRDYSLGPF VEELFEVTSCYFPIDFTPPPNDP HGIQREDLILSLRAVLASTPRFA EFLLPLLIEKVDSEVLSAKLDSL QTLNACCAVYGQKELKDFLPSLW ASIRREVFQTASERVEAEGLAAL HSLTACLSRSVLRADAEDLLDSF LSNILQDCRHHLCEPDMKLVWPS ASCCRQLQVHLPGPVTLSPAMYC LYCWNSSTSTVRAASGGTILEML LGFLKLQQKWSYEDKDQRPLNGF KDQLCSLVFMALTDPSTQLQLVG IR
Human hGIT1_v1	10	prey10784	609	AAAATTGAATCACCCCAGTTTAACTGAAAGCAAAGAATCTACAACAAAAGACAA TGATGAATTCATGATGTTGCTATCAAAAGTTGAGAAATTGTCAGAAGAAATCAT GGAGATAATGCAAAATTTAAGTAGTATACAGGCTTTGGAGGGCAGTAGAGAGCT TGAAAATCTCATTGGAATCTCCTGTGCATCACATTTCTTAAAAAGAGAAATGCA GAAAACCAAAGAACTAATGACAAAAGTGAATAAACAAAAACTGTTTGAAAAGAG TACAGGACTTCCTCACAAAGCATCACGTCATCTTGACAGCTATGAATTCCTTAA AGCCATTTTAAACTGA	1347	KLNHPSLTESKESTTKDNDEFMM LLSKVEKLSEEIMEIMQNLSSIQ ALEGSRELENLIGISCASHFLKR EMQKTKELMTKVNKQKLFEKSTG LPHKASRHLDSYEFLKAILN*
Human hGIT1_v1	10	prey33374	610	GTCAATCCATAATATAGATCATGCACAACGAGAGCCCTTAAGCAGTGAAACACA GTACTCAGTTGATACTCGAAGACCGGCCCCCCAAAAGGCTCTGTATTCCACAGC CATGGAATCCATCCAGGGAGAGGCTCGACGGGGTGGTACCATGGAGACTGATGA CCATATGGGTGGCATCCCTGCCCGGAATAGTAAAGGGGAAAGGCTTCTGCTTTA TATTGGCATCATTGACATTCTACAGTCTTACAGGTTTGTTAAGAAGTTGGAGCA CTCTTGGAAAGCCCTGGTACATGACGGAGACACTGTCTCAGTGCATCGCCCAGG	1348	SIHNIDHAQREPLSSETQYSVDT RRPAPQKALYSTAMESIQGEARR GGTMETDDHMGGIPARNSKGERL LLYIGIIDILQSYRFVKKLEHSW KALVHDGDTVSVHRPGFYAERFQ RFMCNTVFKKIPLKPSPSKKFRS

				CTTCTACGCTGAACGGTTCCAGCGCTTCATGTGCAACACAGTATTTAAGAAGAT TCCCTTGAAGCCTTCTCCTTCCAAAAAGTTTCGGTCTGGCTCATCTTTCTC		GSSF
Human hGIT1_v1	10	prey17667	611	GGAACCTGAAAATCCTCACACACAACGGATGAACAAATTGATTGAATATTACCA GCAGCTTGCTCAGAAAGAGAAGGTTGAGCGAGATCGCAAGAAACTGGCACGACG TAGAAACTATATGCCTCTGGCTTTTTCGGACAAATATGGTCTTGGAACCAGGCT TCAGCGACCACGAGCTGGTGCATCCATCAGTACCCTTGCCGGACTTTCCCTTAA AGAAGGAGAGGATCAGAAAGAGATAAAGATTGAGCCAGCTCAGGCTGTGGATGA AGTGGAACCTCTACCTGAAGACTATTATACAAGACCAGTAAATTTAACAGAGGT AACAACCCTTCAGCAGCGTCTGTTACAGCCTGACTTCCAGCCAGTCTGTGCTTC ACAGCTCTATCCTCGCCACAAACATCTTCTGATCAAACGGTCCCTGCGCTGCCG TAAATGTGAACATAATTTGAGCAAGCCAGAATTTAACCCAAC	1349	EPENPHTQRMNKLIEYYQQLAQK EKVERDRKKLARRRNYMPLAFSD KYGLGTRLQRPRAGASISTLAGL SLKEGEDQKEIKIEPAQAVDEVE PLPEDYYTRPVNLTEVTTLQQRL LQPDFQPVCASQLYPRHKHLLIK RSLRCRKCEHNLSKPEFNP
Human hGIT1_v1	10	prey5511	612	TGTGAACCTGGCCAATCTCATGGAGCAGCTGGGAGTGGCCGGCAAAGTTCACAT TTCTGAGGCCACCGCAAAATACTTAGATGACCGGTACGAAATGGAAGATGGGAA AGTTATTGAACGGCTGGGCCAGAGCGTGGTTGCTGACCAGTTGAAAGGTTTGAA GACATACCTGATATCGGGTCAGAGAGCCAAGGAGTCTCGCTGCAGCTGTGCAGA GGCCTTGCTTTCTGGCTTTGAGGTCATTGACGGCTCACAGGTGTCCTCAGGCCC TAGGGGACAGGGGACAGCGTCATCAGGGAATGTCAGTGACTTGGCGCAGACTGT CAAAACCTTTGATAACCTTAAGACCTGCCCTTCGTGCGGAATCACATTTGCTCC CAAATCTGAAGCCGGCGCCGAGGGAGGAGCACCTCAAAACGGCTGCCAAGACGA GCATAAAAACAGC	1350	VNLANLMEQLGVAGKVHISEATA KYLDDRYEMEDGKVIERLGQSVV ADQLKGLKTYLISGQRAKESRCS CAEALLSGFEVIDGSQVSSGPRG QGTASSGNVSDLAQTVKTFDNLK TCPSCGITFAPKSEAGAEGGAPQ NGCQDEHKNS
Human hGIT1_v1	10	prey7014	613	GCGGCCCACGCTCTTCCGACTGGCGAGTGACACAGAGGACAATGATGAGGCCTT AGCGGAGATCCTGCAGGCCAATGACAACCTCACCCAGGTGATCAACCTGTATAA GCAGCTGGTGCGGGGTGAGGAGGTCAACGGTGATGCCACAGCCGGCTCCATCCC TGGGAGCACCTCGGCCCTGCTGGATCTCTCAGGCCTGGATCTCCCGCCTGCGGG CACCACCTACCCAGCTATGCCCACCCGCCCTGGCGAGCAGGCCAGCCCTGAGCA ACCCAGTGCCTCAGTTTCCCTGCTTGACGACGAGCTCATGTCTCTGGGCCTCAG TGACCCCACACCCCCTTCAGGCCCAAGCCTGGATGGTACCGGATGGAACAGCTT CCAGTCGTCGGATGCCACTGAGCCCCCAGCCCCTGCTCTGGCCCAGGCCCCCAG TATGGAAAGCCGACCCCCAGCGCAGACATCCCTGCCAGCAAGCAGCGGTCTGGA CGACCTAGACCTCCTGGGGAAGACCCTCCTGCAGCAGTCGCTGCCCCCGGAATC CCAGCAAGTGCGGTGGGAGAAGCAGCAGCCAACCCCCCGGCTCACACTCCGGGA CCTGCAGAATAAGAGCAGCAGCTGCAGCTCCCCCAGCTCCAGCGCCACCAGCCT TCTCCACACCGTGTCCCCAGAGCCCCCCAGGCCTCCGCAGCAGCCCGTACCAAC CGAGCTCTCACTGGCCAGCATCACTGTGCCCCTGGAGTCCATCAAACCCAGCAA CATCCTGC	1351	RPTLFRLASDTEDNDEALAEILQ ANDNLTQVINLYKQLVRGEEVNG DATAGSIPGSTSALLDLSGLDLP PAGTTYPAMPTRPGEQASPEQPS ASVSLLDDELMSLGLSDPTPPSG PSLDGTGWNSFQSSDATEPPAPA LAQAPSMESRPPAQTSLPASSGL DDLDLLGKTLLQQSLPPESQQVR WEKQQPTPRLTLRDLQNKSSSCS SPSSSATSLLHTVSPEPPRPPQQ PVPTELSLASITVPLESIKPSNI L
Human hGIT1_v1	10	hgx156	614	GGGATTAGAATCTACCTTAATATCGTCAAAACCTCAGTCTCATTCACTGAGTAC CTCTGGGAAATCAGAGGTACGTGATCTGTTTGTGGCTGAGAGACAGTTTGCAAA GGAACAACATACAGATGGGACACTAAAGGAAGTTGGAGAAGATTATCAAATCGC AATCCCAGATTCACACCTGCCTGTCTCAGAAGAACGGTGGGCATTGGATGCACT	1352	GLESTLISSKPQSHSLSTSGKSE VRDLFVAERQFAKEQHTDGTLKE VGEDYQIAIPDSHLPVSEERWAL DALRNLGLLKQLLVQQLGLTEKS

				AAGAAATTTGGGTTTGTTGAAGCAGTTGCTGGTGCAACAGCTAGGTTTGACTGAGAAGAGCGTTCAGGAAGACTGGCAACATTTCCCAAGATACAGAACAGCCTCTCAGGGGCCGCAGACAGACAGTGTCATCCAGAACTCTGAAAATATTAAGGCCTATCATTCTGGTGAAGGACATATGCCCTTTAGAACTGGAACTGGTGACATTGCAACTTGTTACAGTCCACGGACTTCAACTGAATCTTTTGCTCCACGGGATTCAGTGGGACTGGCACCCCAGGATAGCCAGGCAAGTAACATTTTAGTAATGGACC		VQEDWQHFPRYRTASQGPQTDSVIQNSENIKAYHSGEGHMPFRTGTGDIATCYSPRTSTESFAPRDSVGLAPQDSQASNILVMD
Human hGIT1_v1	10	prey10523	615	ATGGACGCTGACATCAATGTCACAAAAGCGGATGTTGAAAAGGCCCGACAACAAGCTCAAATACGTCACCAAATGGCAGAGGACAGCAAAGCAGATTACTCATCCATTCTCCAGAAATTCAACCATGAGCAGCATGAATATTACCATACTCACATCCCCAACATCTTCCAGAAAATACAAGAGATGGAGGAAAGGAGGATTGTGAGAATGGGAGAGTCCATGAAGACATATGCAGAGGTTGATCGGCAGGTGATCCCAATCATTGGGAAGTGCCTGGATGGAATAGTAAAAGCAGCCGAATCAATTGATCAGAAAAATGATTCACAGCTGGTAATAGAAGCTTATAAATCAGGGTTTGAGCCTCCTGGAGACATTGAATTTGAGGATTACACTCAGCCAATGAAGCGCACTGTGTCAGATAACAGCCTTTCAAATTCCAGAGGAGAAGGCAAACCAGACCTCAAATTTGGTGGCAAATCCAAAGGAAAGTTATGGCCGTTCATCAAAAAAAATAAGCTTATGTCCCTTTTAACATCCCCCCATCAGCCTCCCCC	1353	MDADINVTKADVEKARQQAQIRHQMAEDSKADYSSILQKFNHEQHEYYHTHIPNIFQKIQEMEERRIVRMGESMKTYAEVDRQVIPIIGKCLDGIVKAAESIDQKNDSQLVIEAYKSGFEPPGDIEFEDYTQPMKRTVSDNSLSNSRGEGKPDLKFGGKSKGKLWPFIKKNKLMSLLTSPHQPP
Human hGIT1_v1	10	prey33385	616	GGAGGCCTCTAGGCTCTATCAGCAACTGGGGGACACAACAGCAGAGCTGGAGAGTCTGGAGCTGCTAGTTGAGGCCTTGAATGTCCCATGCAGTTCCAAAGCCCCGCAGTTTCTCATTGAGGTAGAATTACTACTGCCACCACCTGACCTAGCCTCACCCCTTCATTGTGGCACTCAGAGCCAGACCAAGCACATACTAGCAAGCAGGTGCCTACAGACGGGGAGGGCAGGAGACGCTGCAGAGCATTACTTGGACCTGCTGGCCCTGTTGCTGGATAGCTCGGAGCCAAGGTTCTCCCCACCCCCCTCCCCTCCAGGGCCCTGTATGCCTGAGGTGTTTTTGGAGGCAGCGGTAGCACTGATCCAGGCAGGCAGAGCCCAAGATGCCTTGACTCTATGTGAGGAGTTGCTCAGCCGCACATCATCTCTGCTACCCAAGATGTCCCGGCTGTGGGAAGATGCCAGAAAAGGAACCAAGGAACTGCCATA	1354	EASRLYQQLGDTTAELESLELLVEALNVPCSSKAPQFLIEVELLLPPPDLASPLHCGTQSQTKHILASRCLQTGRAGDAAEHYLDLLALLLDSSEPRFSPPPSPPGPCMPEVFLEAAVALIQAGRAQDALTLCEELLSRTSSLLPKMSRLWEDARKGTKELP
Human hGIT1_v1	10	prey33389	617	CCAGGCCAGTCTCCAGGACCCGGGACTTCAGGACATACCATGCCTGGCTCTCCCTGCAAAACTGGCTCAATGCCAAAGTTGTGCCCAGGCAGCTGGAGAGGGAGGAGGGCACGCCTGCCACTCTCAGCAAGTGCGGAGATCGCCTCTGGGAGGGGAGCTGCAGCAGGAGGAAGACACAGCCACCAACTCCAGCTCTGAGGAAGGCCCAGGGTCCGGCCCTGACAGCCGGCTCAGCACAGGCCTCGCCAAGCACCTGCTCAGTGGTTTGGGGGACCGACTGTGCCGCCTGCTGCGGAGGGAGCGGGAGGCCCTGGCTTGGGCCCAGCGGGAAGGCCAAGGGCCAGCCGTGACAGAGGACAGCCCAGGCATTCCACGCTGCTGCAGCCGTTGCCACCATGGACTCTTCAACACCCACTGGCGATGTCCCCGCTGCAGCCACCGGCTGTGTGTGGCCTGTGGTCGTGTGGCAGGCACTGGGCGGCCAGGGAGAAAGCAGGCTTTCAGGAGCAGTCCGCGGAGGAGTGCACGCAGGAGGCC	1355	QASLQDPGLQDIPCLALPAKLAQCQSCAQAAGEGGHACHSQQVRRSPLGGELQQEEDTATNSSSEEGPGSGPDSRLSTGLAKHLLSGLGDRLCRLLRREREALAWAQREGQGPAVTEDSPGIPRCCSRCHHGLFNTHWRCPRCSHRLCVACGRVAGTGRAREKAGFQEQSAEECTQEA
Human hGIT1_v1	10	prey33399	618	GAGGGACAATACACTCAGAACCCAGCCACTGTGTTCTGAAATCCTATCTGAAGGACAAACATTCGGAGCCTCGTAGAATTGTCCTGGAATCCTATGTGAGGGACAAAC	1356	EGQYTQNPATVF*NPI*RTNIRSLVELSWNPM*GTNTQKPIAVFWN

				ACTCAGAAACCTATAGCAGTGTTCTGGAATCCTTTGTGATGGACAAACAAACAGAGCCCAGNAGCCGTGTNCTGGAATCCTATTTGACAGNCAAACACTCANNACTGANNANCTCGTGTTGTGGAATNCTTTGGGATGGGCAAACGGG		PL*WTNKQSPXAVXWNPI*QXNTXX*XXRVVEXFGMGKR
Human hGIT1_v1	10	prey5388	619	GTTCACAGATGAGGAGGGATATGGTCGTTATCTCGATCTCCATGACTGTTACCTCAAGTACATTAACCTGAAGGCATCTGAGAAGCTGGATTATATCACATACCTGTCCATCTTTGACCAATTATTTGACATTCCTAAAGAAAGGAAGAATGCAGAGTATAAGAGATACCTAGAGATGCTGCTTGAGTACCTTCAGGATTACACAGATAGAGTGAAGCCTCTCCAAGATCAGAATGAACTTTTTGGGAAGATTCAGGCTGAGTTTGAGAAGAAATGGGAGAATGGGACCTTTCCTGGATGGCCGAAAGAGACAAGCAGTGCCCTGACCCATGCTGGAGCCCATCTTGACCTCTCTGCATTCTCCTCCTGGGAGGAGTTGGCTTCTCTGGGTTTGGACAGATTGAAATCTGCTCTCTTAGCTTTAGGCTTGAAATGTGGCGG	1357	FTDEEGYGRYLDLHDCYLKYINLKASEKLDYITYLSIFDQLFDIPKERKNAEYKRYLEMLLEYLQDYTDRVKPLQDQNELFGKIQAEFEKKWENGTFPGWPKETSSALTHAGAHLDLSAFSSWEELASLGLDRLKSALLALGLKCG
Human hGIT1_v1	10	prey33401	620	GAAAGGACAACACCCTACAGTGTGGAATGGAAGTTAATTCAAGTATTCTTTCAGGTTGTGCATCTAATCATCCAAAAAATTCAGCTCAAAACCTGACTAAAGATAGTACTTTAAAACATGAAGGCTTCTATTCAGAGAACTTAACTGAATCTAGAAAATTCCTGAAAAGTAGGGAAAAACAGTCCAGCCTGACCGAAATAAAAGGATCTGTTTATGAAACAACAGTNCNNGGGNTGNTG	1358	ERTTPYSVEWKLIQVFFQVVHLIIQKIQLKT*LKIVL*NMKASIQRT*LNLENS*KVGKNSPA*PK*KDLFMKQQXXGX
Human hGIT1_v1	10	prey33402	621	CTCCCTCAAGGTCCACGGAAAAGCCCTGACCCTCCCCAGGCCACGGATCGTCAGTCTCCTCTCCTCACACTCCCACCACTCCTCCCAAAAAGCTACCCCGGCTGAAGAAGTGGAAGACTCCAATGACTCATCATATTCAGAGCCCCCAGATGTTCAGCAGCAGTTGAACCACTATCAGTCAGCTGCCCTGGCAAGGAACAACAGCCGTGTTAGCCCTGTGCCTCTTTCTGGGGCTGCTGCTGGCACTGAGCAGAAAACTGAAGCCGTGCTTCACTGCGAATTCTGTGAATTCTCCTCCGGCTACATCCAGAGCATCAGGCGTCATTACCGGGACAAGCATGGTGGGAAGAAGCTTTTCAAGTGCAAAGACTGCTCCTTTTACACAGGCTTTAAATCTGCTTTTACTATGCACGTGGAAGCTGGGCACTCAGCAGTTCCCGAGGAGGGCCCCAAAGATCTTCGCTGTCCTCTCTGCCTCTATCACACCAAATACAAGCGCAACATGATTGACCACATCGTGCTGCACCGAGAAGAGCGTGTTGTCCCCATTGAAGTTTGCCGGTCCAAACTGTCCAAATACTTGCAGGGAGTAGTTTTCCGCTGTGATAAGTGTACCTTCACCTGCTCCAGTGATGAGAGCCTCCAGCAACATATAGAAAAGCACA	1359	SLKVHGKALTLPRPRIVSLLSSHSHHSSQKATPAEEVEDSNDSSYSEPPDVQQQLNHYQSAALARNNSRVSPVPLSGAAAGTEQKTEAVLHCEFCEFSSGYIQSIRRHYRDKHGGKKLFKCKDCSFYTGFKSAFTMHVEAGHSAVPEEGPKDLRCPLCLYHTKYKRNMIDHIVLHREERVVPIEVCRSKLSKYLQGVVFRCDKCTFTCSSDESLQQHIEKH
Human hGIT1_v1	10	prey33406	622	TNNGGGNTNGATAATCANGNCCCATCGTNGGGCTNNCCATNTGGTATNNATANCNGCNNTCTNACAGGCACGTCGGACANTNTTNTNNTGGGCACTGTNCGGAANCTTGAGNATGAAATCAGTAANCTGNAAGNANGTGAAANGCATGGNCANTNTCTTCACTGAAGNGCAANGTCCTTGANCCAAAGCCATGTTGNGNNCAANAACATCCCCAATCACNCNCANTTATCCGNCAAGAGGTCCNAAGGAGACATAGTCCACCCNTCCANCCCCCANGAAGGGCNTGANCNCC	1360	XGXDNXXPSXGXPXGXXXXXLTGTSDXXXXGTVRXLEXEISXLXXXEXHGXXLH*XAXSLXQSHVXXXNIPNHXXLSXKRSXGDIVHPSXPXEGXXX
Human hGIT1_v1	10	prey16866	623	GGACCGAGATTACTACTATGACACCTTCAAAGGAGATGACTACAATGAGGAGAATCCTACTGAACCCGGCAGCGACGGCACCATGTCAGACAAGGAAATTACTCATGA	1361	DRDYYYDTFKGDDYNEENPTEPGSDGTMSDKEITHDVKAVCSQEAM

				TGTCAAAGCTGTCTGCTCCCAGGAGGCGATGACGGGGCCCTGCCGGGCCGTGAT GCCTCGTTGGTACTTCGACCTCTCCAAGGGAAAGTGCGTGCGCTTTATATATGG TGGCTGCGGCGGCAACAGGAACAATTTTGAGTCTGAGGATTATTGTATGGCTGT GTGTAAAGCGATGATTCCTCCAACTCCTCTGCCAACCAATGATGTTGATGTGTA TTTCGAGACCTCTGCAGATGATAATGAGCATGCTCGCTTCCAGAAGGCTAAGGA GCAGCTGGAGATTCGGCACCGCAACCGAATGGACAGGGTAAAGAAGGAATGGGA AGAGGCAGAGCTTCAAGCTAAGAACCTCCCCAAAGCAGAGAGGCAGACTCTGAT TCAGCACTTCCAAGCCATGGTTAAAGCTTTAGAGAAGGAAGCAGCCAGTGAGAA GCAGCAGCTGGTGGAGACCCACCTGGCCCGAGTGGAAGCTATGCTGAATGACCG CCGTCGGATGGCTCTGGAGAACTACCTGGCTGCCTTGCAGTCTGACCCGCCACG GCCTCATCGCATTCTCCAGGCCTTACGGCGTTATGTCCGTGCTGAGAACAAAGA TCGCTTACATACCATCCGTCATTACCAGCATGTGTTGGCTGTTGACCCAGAAAA GGCG		TGPCRAVMPRWYFDLSKGKCVRF IYGGCGGNRNNFESEDYCMAVCK AMIPPTPLPTNDVDVYFETSADD NEHARFQKAKEQLEIRHRNRMDR VKKEWEEAELQAKNLPKAERQTL IQHFQAMVKALEKEAASEKQQLV ETHLARVEAMLNDRRRMALENYL AALQSDPPRPHRILQALRRYVRA ENKDRLHTIRHYQHVLAVDPEKA
Human hGIT1_v1	10	prey33412	624	TGATGNGGTCCGCCCATCACCNTGAGGCGCNTGGGCTTCCAGGTCTGGCTTAAG AATGGCGTGATTGCTGANCAACGCTGGTGAACAAGCNGNGTCCTCCTGATGGNT CCAAGNNGTGTGNAANGTGCNCATAGAACCCNCCCNNCNTGGTCTTCAAGCAGA TGGAACAGGTGGATCAGNTCCTTAANGCGGNNCAGCANTANGNGNTNNTCAAGT GTNAACATNNTCCAGCCNGNNGTCCTCTCATAAGGCAAAGACANGNCAGCAGNN CAGAGGCCCCATTAATAGCTTTNNGCAGGATTGNCAGTGACCAAGAATGATGGG CNCGGCNGTGGAGNTCCCAAGAGGATTTATAAANNNAGCNCN	1362	*XGPPITXRRXGFQVWLKNGVIA XQRW*TSXVLLMXPXXVXXAHRT XPXWSSSRWNRWIXSLXRXSXXX XSSVNXXQPXVLS*GKDXXAXQR PH**LXAGLXVTKNDGXGXGXPK RIYKXSX
Human hGIT1_v1	10	prey3879	625	GACAAGCTGAATGTGGTGAAAAAGACACTCATCACTTTCGTGAACAAGCACCTG AATAAACTGAACCTGGAGGTCACAGAACTGGAAACCCAGTTTGCAGATGGGGTG TACCTGGTGCTGCTCATGGGGCTCCTGGAGGGCTACTTTGTGCCCCTGCACAGC TTCTTCCTGACCCCGGACAGCTTTGAACAGAAGGTCTTGAATGTCTCCTTTGCC TTTGAGCTCATGCAAGATGGAGGGTTGGAAAAGCCAAAACCGCGGCCAGAAGAC ATAGTCAACTGTGACCTGAAATCTACACTAC	1363	DKLNVVKKTLITFVNKHLNKLNL EVTELETQFADGVYLVLLMGLLE GYFVPLHSFFLTPDSFEQKVLNV SFAFELMQDGGLEKPKPRPEDIV NCDLKSTL
Human hGIT1_v1	10	prey1551	626	CTATGACCAGCCCCGGAAGAAAAAGAAAAAGATTGTGAAAACTTCAGCCACGGC ACTTGGAGATAAAGGACTTAAAAAAAATGACTCTAAAAGCACTGGTAAAAACTT GGACTCAGTTCAGAAATTACCCAAGGTGAACAAAACCAAGTCAGAGAAGCCGGC TGGAGCTGATTTAGCCAAGCTGAGAAAGGTGCCTGATGTGTTGCCAGTGTTGCC AGACCTCCCGTTACCCGCGATACAGGCCAATTACCGTCCACTGCCTTCCCTCGA GCTGATATCCTCCTTCCAGCCAAAGCGAAAAGCGTTCTCTTCACCCCAGGAAGA AGAAGAAGCTGGATTTACTGGGCGCAGAATGAATTCCAAGATGCAGGTGTATTC TGGTTCCAAGTGTGCCTATCTCCCTAAAATGATGACCTTGCACCAGCAATGCAT CCGAGTACTTAAAAACAACATCGATTCAATCTTTGAAGTGGGAGGAGTCCCATA CTCTGTTCTTGAACCCGTTTTGGAGAGGTGTACACCTGATCAGCTGTATCGCAT AGAGGAATACAATCATGTATTAATTGAAGAAACAGATCAATTATGGAAAGTTCA TTGTCACCGAGACTTTAAGGAAGAAAGACCCGAAGAGTATGAGTCGTGGCGAGA GATGTACCTGCGGCTTCAGGACGCCCGAGAGCAGCGGCTACGAGTACTAACAAA	1364	YDQPRKKKKKIVKTSATALGDKG LKKNDSKSTGKNLDSVQKLPKVN KTKSEKPAGADLAKLRKVPDVLP VLPDLPLPAIQANYRPLPSLELI SSFQPKRKAFSSPQEEEEAGFTG RRMNSKMQVYSGSKCAYLPKMMT LHQQCIRVLKNNIDSIFEVGGVP YSVLEPVLERCTPDQLYRIEEYN HVLIEETDQLWKVHCHRDFKEER PEEYESWREMYLRLQDAREQRLR VLTKNIQFAHANKPKGRQAKMAF VNSVAKPPRDVRRRQEKFGTGGA AVPEKIKIKPAPYPMG

				GAATATCCAGTTCGCACATGCCAATAAGCCCAAAGGCCGACAAGCAAAGATGGC CTTTGTCAACTCTGTGGCCAAGCCACCTCGTGACGTCCGGAGGAGGCAGGAAAA GTTTGGAACGGGAGGAGCAGCTGTCCCTGAGAAAATCAAGATCAAGCCAGCCCC GTACCCCATGGGAA		
Human hGIT1_v1	10	prey33426	627	CCGAGAGGAACTGCTAGCCAACACAGAGCTGGTAGAACACATCACTGCAGCCCT TATCAAGGGGGAACTCTACGAAAGGGCAGGTGATCTCTTTGAGAAGATTCACAA TCCACAGAAGGCCCTGGAGTGCTACCGTAAAGGCAACGCATTCATGAAAGCGGT AGAGCTGGCTCGATTGGCCTTCCCAGTGGAGGTGGTGAAACTAGAGGAGGCATG GGGGGACCACCTGGTGCAGCAGAAGCAGCTTGATGCAGCCATTAATCACTACAT CGAAGCCAGGTGCTCCATTAAGGCAATTGAGGCCGCCCTGGGTGCCCGCCAGTG GAAGAAGGCAATTTATATATTAGATCTACAGGACCGGAACACTGCATCCAAATA CTATCCTCTCGTGGCCCAACACTATGCATCCCTGCAGGAGTATGAGATTGCTGA GGAGCTCTATACTAAGGGAGATCGGACAAAAGATGCCATAGACATGTACACCCA GGCTGGTCGTTGGGAACAAGCCCACAAGCTGGCGATGAAATGCATGAGACCAGA AGATGTGTCAGTGCTATACATCACTCAGGCCCAGGAAATGGAGAAGCAGGGCAA GTACCGTGAGGCTGAAAGGCTATATGTGACAGTACAAGAGCCTGATCTTGCCAT CACCATGTA	1365	REELLANTELVEHITAALIKGEL YERAGDLFEKIHNPQKALECYRK GNAFMKAVELARLAFPVEVVKLE EAWGDHLVQQKQLDAAINHYIEA RCSIKAIEAALGARQWKKAIYIL DLQDRNTASKYYPLVAQHYASLQ EYEIAEELYTKGDRTKDAIDMYT QAGRWEQAHKLAMKCMRPEDVSV LYITQAQEMEKQGKYREAERLYV TVQEPDLAITM
Human hGIT1_v1	10	prey33431	628	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNACGCNTNGGNNTGATT GACTCGTG	1366	XXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXRXGXIDS
Human hGIT1_v1	10	prey33434	629	GCAGACCAAGCCGAC	1367	ADQAD
Human hGIT1_v4	11	prey2406	630	CAGAAAAACAGATGATGGCCAGATCACAGAACATGCCCAGAGCCTTGTGTTGGA TACTCTCTGTTGGTTAGCTGGAGTTCATTCAAATGGACCCGGAAGCTCAAAGGA AGGAAATGAGAACCTACTTTCAAAAACACGAAAATTTCTGTCAGACATCGTACG TGTTTGCTTCTTTGAGGCAGGACGAAGTATAGCCCATAAGTGTGCCCGATTTCT AGCCTTGTGCATTAGTAATGGCAAATGTGACCCATGTCAACCAGCATTTGGACC TGTTCTGTTGAAGGCTTTACTTGATAATATGTCATTTTTACCTGCAGCAACAAC TGGTGGTTCTGTCTATTGGTATTTTGTCTTACTGAATTATGTGAAAGATGAAGA TCTGGCTGGATGCAGTACAGCTTGTGCATCTTTGCTTACTGCAGTGTCCAGACA GTTACAGGACAGGCTAACACCAATGGAGGCTTTACTTCAGACAAGATATGGATT ATATAGCTCACCATTTGATCCAGTCCTCTTTGATTTGGAGATGAGTGGCTCTTC TTGTAAAAATGTTTATAACAGCAGCATTGGTGTCCAGTCAGATGAAATTGATTT ATCAGATGTCCTTTCAGGAAATGGAAAGGTCAGTAGTTGCACAGCTGCTGAGGG TAGTTTCACATCTCTCACTGGACTTTTGGAAGTTGAACCTCTGCACTTTACTTG TGTGTCAACTAGTGATGGAACCAGAATAGAAAGGGATGATGCAATGAGTTCCTT	1368	RKTDDGQITEHAQSLVLDTLCWL AGVHSNGPGSSKEGNENLLSKTR KFLSDIVRVCFFEAGRSIAHKCA RFLALCISNGKCDPCQPAFGPVL LKALLDNMSFLPAATTGGSVYWY FVLLNYVKDEDLAGCSTACASLL TAVSRQLQDRLTPMEALLQTRYG LYSSPFDPVLFDLEMSGSSCKNV YNSSIGVQSDEIDLSDVLSGNGK VSSCTAAEGSFTSLTGLLEVEPL HFTCVSTSDGTRIERDDAMSSFG VTPAVGGLSSGTVGEASTALSSA AQVALQSLSHAMASAEQQLQVLQ EKQQQLLKLQQQKAKLEAKLHQT

				CGGGGTTACTCCTGCAGTAGGTGGACTATCATCTGGGACAGTTGGGGAAGCCTC GACAGCCCTGAGTTCAGCAGCCCAGGTAGCTTTGCAGTCTCTCTCTCATGCAAT GGCTTCAGCCGAGCAACAGCTACAGGTGCTGCAAGAGAAACAGCAGCAGCTTTT GAAGCTTCAGCAACAGAAAGCAAAGCTGGAAGCCAAGTTACATCAGACAACAGC TGCAGCAGCTGCAGCAGCATCAGCAGTAGGTCCTGTTCACAACTCTGTGCCTTC CAACCCAGTGGCTGCCCCTGGATTCTTCATTCATCCATCTGATGTTATTCCACC C		TAAAAAAASAVGPVHNSVPSNPV AAPGFFIHPSDVIPP
Human hGIT1_v4	11	prey700	631	ATGGGAATTGGTCTTTCTGCTCAAGGTGTGAACATGAATAGACTACCAGGTTGG GATAAGCATTCATATGGTTACCATGGGGATGATGGACATTCGTTTTGTTCTTCT GGAACTGGACAACCTTATGGACCAACTTTCACTACTGGTGATGTCATTGGCTGT TGTGTTAATCTTATCAACAATACCTGCTTTTACACCAAGAATGGACATAGTTTA GGTATTGCTTTCACTGACCTACCGCCAAATTTGTATCCTACTGTGGGGCTTCAA ACACCAGGAGAAGTGGTCGATGCCAATTTTGGGCAACATCCTTTCGTGTTTGAT ATAGAAGACTATATGCGGGAGTGGAGAACCAAAATCCAGGCACAGATAGATCGA TTTCCTATCGGAGATCGAGAAGGAGAATGGCAGACCATGATACAAAAAATGGTT TCATCTTATTTAGTCCACCATGGGTACTGTGCCACAGCAGAGGCCTTTGCCAGA TCTACAGACCAGACCGTTCTAGAAGAATTAGCTTCCATTAAGAATAGACAAAGA ATTCAGAAATTGGTATTAGCAGGAAGAATGGGAGAAGCCATTGAAACAACAC	1369	MGIGLSAQGVNMNRLPGWDKHSY GYHGDDGHSFCSSGTGQPYGPTF TTGDVIGCCVNLINNTCFYTKNG HSLGIAFTDLPPNLYPTVGLQTP GEVVDANFGQHPFVFDIEDYMRE WRTKIQAQIDRFPIGDREGEWQT MIQKMVSSYLVHHGYCATAEAFA RSTDQTVLEELASIKNRQRIQKL VLAGRMGEAIETT
Human hGIT1_v4	11	prey4221	632	ATGAAAGCTATGGATGTTTTACCAATTTTGAAGGAAAAAGTTGCATACCTTTCA GGTGGGAGAGATAAACGTGGAGGTCCCATTTTAACGTTTCCGGCCCGCAGCAAT CATGACAGAATACGACAGGAGGATCTCAGGAGACTCATTTCCTATCTAGCCTGT ATTCCCAGCGAGGAGGTCTGCAAGCGTGGCTTCACGGTGATCGTGGACATGCGT GGGTCCAAGTGGGACTCCATCAAGCCCCTTCTGAAGATCCTGCAGGAGTCCTTC CCCTGCTGCATCCATGTGGCCCTGATCATCAAGCCAGACAACTTCTGGCAGAAA CAGAGGACTAATTTTGGCAGTTCTAAATTTGAATTTGAGACAAATATGGTCTCT TTAGAAGGCCTTACCAAAGTAGTTGATCCTTCTCAGCTAACTCCTGAGTTTGAT GGCTGCCTGGAATACAACCACGAAGAATGGATTGAAATCAGAGTTGCTTTTGAA GACTACATTAGCAATGCCACCCACATGCTGTCTCGGCTGGAGGAACTTCAGGAC ATCCTAGCTAAGAAGGAGCTGCCTCAGGATTTAGAGGGGGCTCGGAATATGATC GAGGAACATTCTCAGCTGAAGAAGAAGGTGATTAAGGCCCCCATCGAGGACCTG GATTTGGAGGGACAGAAGCTGCTTCAGAGGATACAGAGCAGTGAAAGCTTTCCC AAAAAGAACTCAGGCTCAGGCAATGCGGACCTGCAGAACCTCTTGCCCAAGGTG TCCACCATGCTGGACCGGCTGCACTCGACACGGCAGCATCTGCACCAGATGTGG CATGTGAGGAAGCTGAAGCTGGACCAGTGCTTCCAGCTGAGGCTGTTTGAACAG GATGCTGAGAAGATGTTTGACTGGATCACACACAACAAAGGCCTGTTTCTAAAC AGCTACACAGAGATTGGGACCAGCCACCCTCATGCCATGGAGCTTCAGACGCAG CACAATCACTTTGCCATGAACTGTATGAACGTGTATGTAAATATAAACCGCATC ATGTCGGTGGCCAATCGTCTGGTGGAGTCTGGCCACTATGCCTCGCAGCAGATC AGGCAGATCGCGAGTCAGCTGGAGCAGGAGTGGAAGGCGTTTGCGGCAGCCCTG	1370	MKAMDVLPILKEKVAYLSGGRDK RGGPILTFPARSNHDRIRQEDLR RLISYLACIPSEEVCKRGFTVIV DMRGSKWDSIKPLLKILQESFPC CIHVALIIKPDNFWQKQRTNFGS SKFEFETNMVSLEGLTKVVDPSQ LTPEFDGCLEYNHEEWIEIRVAF EDYISNATHMLSRLEELQDILAK KELPQDLEGARNMIEEHSQLKKK VIKAPIEDLDLEGQKLLQRIQSS ESFPKKNSGSGNADLQNLLPKVS TMLDRLHSTRQHLHQMWHVRKLK LDQCFQLRLFEQDAEKMFDWITH NKGLFLNSYTEIGTSHPHAMELQ TQHNHFAMNCMNVYVNINRIMSV ANRLVESGHYASQQIRQIASQLE QEWKAFAAALDERSTLLDMSSIF HQKAEKYMSNVDSWCKACGEVDL PSELQDLEDAIHHHQGIYEHITL AYSEVSQDGKSLLDKLQRPLTPG SSDSLTASANYSKAVHHVLDVIH

				GATGAGCGGAGCACCTTGCTGGACATGTCCTCCATTTTCCACCAGAAGGCCGAA AAGTATATGAGCAACGTGGATTCATGGTGTAAAGCTTGCGGTGAGGTAGACCTT CCCTCAGAGCTGCAGGACCTAGAAGATGCCATTCATCACCACCAGGGAATATAT GAACATATCACTCTTGCTTATTCTGAGGTCAGCCAAGATGGGAAGTCGCTCCTT GACAAGCTCCAGCGGCCCTTGACTCCCGGCAGCTCCGATTCCCTGACAGCCTCT GCCAACTACTCCAAGGCCGTGCACCATGTCCTGGATGTCATCCACGAGGTGCTG CACCACCAGCGGCACGTGAGAACAATCTGGCAACACCGCAAGGTCCGGCTGCAT CAGAGGCTGCAGCTGTGTGTTTTCCAGCAGGAAGTTCAGCAGGTGCTAGACTGG ATCGAGAACCACGGAGAAGCATTTCTGAGCAAACATACAGGTGTGGGGAAATCT CTTCATCGGGCCAGAGCATTGCAGAAACGTCATGAAGATTTTGAAGAAGTGGCA CAGAACACATACACCAATGCGGATAAATTACTGGAAGCAGCAGAACAGCTGGCT CAGACTGGGGAATGTGACCCCGAAGAGATTTATCAGGCTGCCCATCAGCTGGAA GACCGGATTCAAGATTTCGTTCGGCGTGTTGAGCAGCGAAAGATCCTACTGGAC ATGTCAGTGTCCTTTCACACCCATGTGAAAGAGCTGTGGACGTGGCTGGAGGAG CTGCAGAAGGAGCTGCTGGACGACGTGTATGCCGAGTCGGTGGAGGCCGTGCAG GACCTCATCAAGCGCTTTGGCCAGCAGCAGCAGACCACCCTGCAGGTGACTGTC AACGTGATCAAGGAAGGGGAGGACCTCATCCAGCAGCTCAGGGACTCTGCCATC TCCAGTAACAAGACCCCCCACAACAGCTCCATCAACCACATTGAGACGGTGCTG CAGCAGCTGGACGAGGCGCAGTCGCAGATGGAGGAGCTCTTCCAGGAGCGCAAG ATCAAGCTGGAGCTCTTCCTGCACGTGCGCATCTTCGAGAGGGACGCCATCGAC ATTATCTCAGACCTCGAGTCTTGGAATGATGAGCTTTCTCAGCAAATGAATGAC TTCGACACAGAAGATCTCACGATTGCAGAGCAGCGCCTCCAGCACCATGCAGAC AAAGCCTTGACCATGAACAACTTGACTTTTGACGTCATCCACCAAGGGCAAGAT CTTCTGCAGTATGTCAATGAGGTCCAGGCCTCTGGTGTGGAGCTGCTGTGTGAT AGAGATGTAGACATGGCAACTCGGGTCCAGGACCTGCTGGAGTTTCTTCATGAA AAACAGCAGGAATTGGATTTAGCCGCAGAGCAGCATCGGAAACACCTGGAGCAG TGCGTGCAGCTGCGCCACCTGCAGGCAGAAGTGAAACAGGTGCTGGGTTGGATC CGCAACGGAGAGTCCATGTTAAATGCCGGACTTATCACAGCCAGCTCGTTACAA GAGGCAGAGCAGCTCCAGCGAGAGCACGAGCAGTTCCAGCATGCCATTGAGAAA ACACATCAGAGCGCGCTGCAGGTGCAGCAGAAGGCAGAAGCCATGCTACAGGCC AACCACTACGACATGGACATGATCCGGGACTGCGCCGAGAAGGTGGCGTCTCAC TGGCAACAGCTCATGCTCAAGATGGAAGATCGCCTCAAGCTCGTCAACGCCTCT GTCGCTTTCTACAAAACCTCAGAGCAGGTCTGCAGCGTCCTCGAGAGCCTGGAA CAGGAGTACAAGAGAGAAGAAGACTGGTGTGGCGGGGCGGATAAGCTGGGCCCA AACTCTGAGACGGACCACGTGACGCCCATGATCAGCAAGCACCTGGAGCAGAAG GAGGCATTCCTGAAGGCTTGCACCCTTGCTCGGAGGAATGCAGACGTCTTCCTG AAATACCTGCACAGGAACAGCGTGAACATGCCAGGAATGGTGACGCACATCAAA GCTCCTGAACAGCAAGTGAAAAATATCTTGAATGAACTCTTCCAACGGGAGAAC AGGGTATTGCATTACTGGACCATGAGGAAGAGACGGCTGGACCAGTGTCAGCAG		EVLHHQRHVRTIWQHRKVRLHQR LQLCVFQQEVQQVLDWIENHGEA FLSKHTGVGKSLHRARALQKRHE DFEEVAQNTYTNADKLLEAAEQL AQTGECDPEEIYQAAHQLEDRIQ DFVRRVEQRKILLDMSVSFHTHV KELWTWLEELQKELLDDVYAESV EAVQDLIKRFGQQQQTTLQVTVN VIKEGEDLIQQLRDSAISSNKTP HNSSINHIETVLQQLDEAQSQME ELFQERKIKLELFLHVRIFERDA IDIISDLESWNDELSQQMNDFDT EDLTIAEQRLQHHADKALTMNNL TFDVIHQGQDLLQYVNEVQASGV ELLCDRDVDMATRVQDLLEFLHE KQQELDLAAEQHRKHLEQCVQLR HLQAEVKQVLGWIRNGESMLNAG LITASSLQEAEQLQREHEQFQHA IEKTHQSALQVQQKAEAMLQANH YDMDMIRDCAEKVASHWQQLMLK MEDRLKLVNASVAFYKTSEQVCS VLESLEQEYKREEDWCGGADKLG PNSETDHVTPMISKHLEQKEAFL KACTLARRNADVFLKYLHRNSVN MPGMVTHIKAPEQQVKNILNELF QRENRVLHYWTMRKRRLDQCQQY VVFERSAKQALEWIHDNGEFYLS THTSTGSSIQHTQELLKEHEEFQ ITAKQTKERVKLLIQLADGFCEK GHAHAAEIKKCVTAVDKRYRDFS LRMEKYRTSLEKALGISSDSNKS SKSLQLDIIPASIPGSEVKLRDA AHELNEEKRKSARRKEFIMAELI QTEKAYVRDLRECMDTYLWEMTS GVEEIPPGIVNKELIIFGNMQEI YEFHNNIFLKELEKYEQLPEDVG HCFVTWADKFQMYVTYCKNKPDS TQLILEHAGSYFDEIQQRHGLAN SISSYLIKPVQRITKYQLLLKEL

				TACGTGGTCTTTGAGAGGAGTGCCAAGCAGGCTTTGGAATGGATCCATGACAAT GGCGAGTTCTACCTTTCCACACACACCTCCACGGGCTCCAGTATACAGCACACC CAGGAGCTCCTGAAAGAGCACGAGGAGTTCCAGATAACTGCAAAGCAAACCAAA GAGAGAGTGAAGCTATTGATACAGCTGGCTGATGGCTTTTGTGAAAAAGGGCAT GCCCATGCGGCAGAGATAAAAAAATGTGTTACTGCTGTGGATAAGAGGTACAGA GATTTCTCTCTGCGGATGGAGAAGTACAGGACCTCTTTGGAAAAAGCCCTGGGG ATTTCTTCAGATTCCAACAAATCGAGTAAAAGTCTCCAGCTAGATATCATTCCA GCCAGTATCCCTGGCTCAGAGGTGAAACTTCGAGATGCTGCTCATGAACTTAAT GAAGAGAAGCGGAAATCTGCCCGCAGGAAAGAGTTCATAATGGCTGAGCTCATT CAAACTGAAAAGGCTTATGTAAGAGACCTCCGGGAATGTATGGATACGTACCTG TGGGAAATGACCAGTGGCGTGGAAGAGATTCCACCTGGCATTGTAAACAAAGAA CTCATCATCTTCGGAAACATGCAAGAAATCTACGAATTTCATAATAACATATTC CTAAAGGAGCTGGAAAAATATGAACAGTTGCCAGAGGATGTTGGACATTGTTTT GTTACTTGGGCAGACAAGTTTCAGATGTATGTCACATATTGCAAAAATAAGCCT GATTCTACTCAGCTGATATTGGAACATGCAGGGTCCTATTTTGACGAGATACAG CAGCGACATGGATTAGCCAATTCCATTTCTTCCTACCTTATTAAACCAGTTCAG CGAATAACGAAATATCAGCTCCTTTTAAAAGAGCTGCTGACGTGCTGTGAGGAA GGAAAGGGAGAGATTAAAGATGGCCTGGAGGTGATGCTCAGCGTGCCGAAGCGA GCCAATGACGCCATGCACCTCAGCATGCTGGAAGGGTTTGATGAAAACATTGAG TCTCAGGGAGAACTCATCCTACAGGAATCCTTCCAAGTGTGGGACCCAAAAACC TTAATTCGAAAGGGTCGAGAACGGCATCTCTTCCTTTTGAAATGTCCTTAGTA TTTAGTAAAGAAGTGAAAGATTCCAGTGGGAGAAGCAAGTACCTTTATAAAAGC AAATTGTTTACCTCAGAGTTGGGTGTCACAGAACATGTTGAAGGAGACCCTTGC AAATTTGCACTGTGGGTGGGGAGAACACCAACTTCAGATAATAAAATTGTCCTT AAGGCTTCCAGCATAGAGAACAAGCAGGACTGGATAAAGCATATCCGCGAAGTC ATCCAGGAGCGGACGATCCACCTGAAGGGAGCCCTGAAGGAGCCCATTCACATC CCTAAGACCGCTCCCGCCACAAGACAGAAGGGAAGGAGGGATGGAGAGGATCTG GACAGCCAAGGAGACGGCAGCAGCCAGCCTGATACGATTTCCATCGCCTCACGG ACGTCTCAGAACACGCTGGACAGCGATAAGCTCTCTGGTGGCTGTGAGCTGACA GTGGTGATCCATGACTTCACCGCTTGCAACAGCAACGAGCTGACCATCCGACGG GGCCAGACCGTGGAAGTTCTGGAGCGGCCGCATGACAAGCCTGACTGGTGTCTG GTGCGGACCACTGACCGCTCCCCAGCGGCAGAAGGCCTGGTCCCCTGTGGTTCA CTGTGCATCGCCCACTCCAGAAGTAGCATGGAAATGGAGGGCATCTTCAACCAC AAAGACTCGCTCTCCGTCTCCAGCAATGACGCCAGTCCACCCGCATCCGTGGCT TCCCTCCAGCCCCACATGATCGGGGCCCAGAGCTCGCCGGGCCCCAAGCGGCCG GGCAACACCCTGCGCAAGTGGCTCACCAGCCCCGTGCGGCGGCTCAGCAGCGGC AAGGCCGACGGGCACGTGAAGAAGCTGGCGCACAAGCACAAGAAGAGCCGCGAG GTCCGCAAGAGCGCCGACGCCGGCTCGCAGAAGGACTCCGACGACAGTGCGGCC ACCCCGCAGGACGAGACGGTCGAGGAGAGAGGCCGGAACGAGGGCCTGAGCAGC		LTCCEEGKGEIKDGLEVMLSVPK RANDAMHLSMLEGFDENIESQGE LILQESFQVWDPKTLIRKGRERH LFLFEMSLVFSKEVKDSSGRSKY LYKSKLFTSELGVTEHVEGDPCK FALWVGRTPTSDNKIVLKASSIE NKQDWIKHIREVIQERTIHLKGA LKEPIHIPKTAPATRQKGRRDGE DLDSQGDGSSQPDTISIASRTSQ NTLDSDKLSGGCELTVVIHDFTA CNSNELTIRRGQTVEVLERPHDK PDWCLVRTTDRSPAAEGLVPCGS LCIAHSRSSMEMEGIFNHKDSLS VSSNDASPPASVASLQPHMIGAQ SSPGPKRPGNTLRKWLTSPVRRL SSGKADGHVKKLAHKHKKSREVR KSADAGSQKDSDDSAATPQDETV EERGRNEGLSSGTLSKSSSSGMQ SCGEEEGEEGADAVPLPPPMAIQ QHSLLQPDSQDDKASSRLLVRPT SSETPSAAELVSAIEELVKSKMA LEDRPSSLLVDQGDSSSPSFNPS DNSLLSSSSPIDEMEERKSSSLK RRHYVLQELVETERDYVRDLGYV VEGYMALMKEDGVPDDMKGKDKI VFGNIHQIYDWHRDFFLGELEKC LEDPEKLGSLFVKHERRLHMYIA YCQNKPKSEHIVSEYIDTFFEDL KQRLGHRLQLTDLLIKPVQRIMK YQLLLKDFLKYSKKASLDTSELE RAVEVMCIVPRRCNDMMNVGRLQ GFDGKIVAQGKLLLQDTFLVTDQ DAGLLPRCRERRIFLFEQIVIFS EPLDKKKGFSMPGFLFKNSIKVS CLCLEENVENDPCKFALTSRTGD VVETFILHSSSPSVRQTWIHEIN QILENQRNFLNALTSPIEYQRNH SGGGGGGGSGAAAGVGAAAAAGP PVAAAATVAAPAAAAAPPARAGA

				GGTACTCTCTCCAAATCCTCCTCCTCGGGGATGCAGAGCTGTGGAGAAGAGGAA GGCGAGGAGGGGGCCGACGCCGTGCCCCTGCCGCCACCCATGGCCATCCAGCAG CACAGCCTCCTCCAGCCAGACTCACAGGATGACAAGGCCTCTTCTCGGTTATTA GTCCGCCCCACCAGCTCCGAAACACCGAGTGCAGCCGAGCTCGTCAGTGCAATT GAGGAACTCGTGAAAAGCAAGATGGCACTGGAGGATCGCCCCAGCTCACTCCTT GTTGACCAGGGAGATAGTAGCAGCCCTTCCTTCAACCCTTCGGATAATTCCCTT CTCTCTTCCTCCTCGCCCATTGATGAGATGGAAGAAAGGAAATCCAGCTCTTTA AAGAGAAGACACTACGTTTTGCAAGAACTAGTGGAGACAGAGCGTGACTATGTG CGGGACCTTGGCTATGTGGTTGAGGGCTACATGGCACTTATGAAAGAAGATGGT GTTCCTGATGACATGAAAGGAAAAGACAAAATTGTGTTCGGCAACATCCATCAG ATTTACGACTGGCACAGAGACTTTTTTTTAGGAGAGTTAGAGAAGTGCCTTGAA GATCCAGAAAAACTAGGATCCCTTTTTGTTAAACACGAGAGAAGGTTGCACATG TACATAGCTTATTGTCAAAATAAACCAAAGTCTGAGCACATTGTCTCAGAATAC ATTGATACCTTTTTTGAGGACTTAAAGCAGCGTCTTGGCCACAGGTTACAGCTC ACAGATCTGTTGATCAAACCAGTGCAGAGAATCATGAAGTATCAGCTGTTACTG AAGGACTTCCTCAAGTATTCCAAAAAGGCCAGCCTGGATACATCAGAATTAGAG AGAGCTGTGGAAGTCATGTGCATAGTACCCAGGCGGTGCAACGACATGATGAAC GTGGGGCGGCTGCAAGGATTCGACGGGAAAATCGTTGCCCAGGGTAAACTGCTC TTGCAGGACACATTCTTGGTCACAGACCAAGATGCAGGACTTCTGCCTCGCTGC AGAGAGAGGCGCATCTTCCTCTTTGAGCAGATCGTCATATTCAGCGAACCACTT GATAAAAAGAAGGGCTTCTCCATGCCGGGATTCCTGTTTAAGAACAGTATCAAG GTGAGTTGCCTTTGCCTGGAGGAAAATGTGGAAAATGATCCCTGTAAATTTGCT CTGACATCGAGGACGGGTGACGTGGTAGAGACCTTCATTTTGCATTCATCTAGT CCAAGTGTCCGGCAAACTTGGATCCATGAAATCAACCAAATTTTAGAAAACCAG CGCAATTTTTTAAATGCCTTGACATCGCCAATCGAGTACCAGAGGAACCACAGC GGGGGCGGCGGCGGCGGCGGCAGCGGGGCAGCGGCGGGGGTGGGGGCAGCGGCG GCGGCGGGGCCCCCAGTGGCGGCAGCGGCCACAGTGGCGGCCCCAGCAGCTGCG GCGGCGCCCCCAGCACGAGCAGGAGCCGGCCCTCCCGGATCCCCCAGCCTGTCC GACACCACCCCCCCGTGCTGGTCTCCTCTGCAGCCTCGAGCCAGGCAGAGGCAG ACAAGATGTCAGAGTGAAAGCAGCAGCAGTAGCAACATCTCCACCATGTTGGTG ACACACGATTACACGGCAGTGAAGGAGGATGAGATCAACGTCTACCAAGGAGAG GTCGTTCAAATTCTGGCCAGCAACCAGCAGAACATGTTTCTGGTGTTCCGAGCC GCCACTGACCAGTGCCCCGCAGCTGAGGGCTGGATTCCAGGCTTTGTCCTGGGC CACACCAGTGCAGTCATCGTGGAGAACCCGGACGGGACTCTCAAGAAGTCAACA TCTTGGCACACAGCACTCCGTTTAAGGAAAAAATCTGAGAAAAAAGATAAAGAC GGCAAAAGGGAAGGCAAGTTAGAGAACGGTTATCGGAAGTCACGGGAAGGACTC AGCAACAAGGTATCTGTGAAGCTTCTCAATCCCAACTACATTTATGACGTTCCC CCAGAATTCGTCATTCCATTGAGTGAGGTCACGTGTGAGACAGGGGAGACCGTT GTTCTTAGATGTCGAGTCTGTGGCCGCCCCAAAGCCTCAATTACCTGGAAGGGC		GPPGSPSLSDTTPPCWSPLQPRA RQRQTRCQSESSSSSNISTMLVT HDYTAVKEDEINVYQGEVVQILA SNQQNMFLVFRAATDQCPAAEGW IPGFVLGHTSAVIVENPDGTLKK STSWHTALRLRKKSEKKDKDGKR EGKLENGYRKSREGLSNKVSVKL LNPNYIYDVPPEFVIPLSEVTCE TGETVVLRCRVCGRPKASITWKG PEHNTLNNDGHYSISYSDLGEAT LKIVGVTTEDDGIYTCIAVNDMG SASSSASLRVLGPGMDGIMVTWK DNFDSFYSEVAELGRGRFSVVKK CDQKGTKRAVATKFVNKKLMKRD QVTHELGILQSLQHPLLVGLLDT FETPTSYILVLEMADQGRLLDCV VRWGSLTEGKIRAHLGEVLEAVR YLHNCRIAHLDLKPENILVDESL AKPTIKLADFGDAVQLNTTYYIH QLLGNPEFAAPEIILGNPVSLTS DTWSVGVLTYVLLSGVSPFLDDS VEETCLNICRLDFSFPDDYFKGV SQKAKEFVCFLLQEDPAKRPSAA LALQEQWLQAGNGRSTGVLDTSR LTSFIERRKHQNDVRPIRSIKNF LQSRLLPRV*

				CCTGAACACAACACCTTGAACAACGATGGTCACTACAGCATCTCCTACAGTGAC CTGGGAGAGGCCACGCTGAAGATTGTGGGCGTGACCACGGAAGATGACGGCATC TACACGTGCATCGCTGTCAATGACATGGGTTCAGCCTCATCATCGGCCAGCCTG AGGGTCCTAGGTCCAGGGATGGATGGGATCATGGTGACCTGGAAAGACAACTTT GACTCCTTCTACAGTGAAGTGGCTGAGCTTGGCAGGGGCAGATTCTCTGTCGTT AAGAAATGTGATCAGAAAGGAACCAAGCGAGCAGTGGCCACTAAGTTTGTGAAC AAGAAGTTGATGAAGCGCGACCAGGTCACCCATGAGCTTGGCATCCTGCAGAGC CTCCAGCACCCCCTGCTTGTCGGCCTCCTCGACACCTTTGAGACCCCCACCAGC TACATCCTGGTCTTAGAAATGGCTGACCAGGGTCGCCTCCTGGACTGCGTGGTG CGATGGGGAAGCCTCACTGAAGGGAAGATCAGGGCGCACCTGGGGGAGGTTCTG GAAGCTGTCCGGTACCTGCACAACTGCAGGATAGCACACCTGGACCTAAAGCCT GAGAATATCCTGGTGGATGAGAGTTTAGCCAAGCCAACCATCAAACTGGCTGAC TTTGGAGATGCTGTTCAGCTCAACACGACCTACTACATCCACCAGTTACTGGGG AACCCTGAATTCGCAGCCCCTGAAATCATCCTCGGGAACCCTGTCTCCCTGACC TCGGATACGTGGAGTGTTGGAGTGCTCACATACGTACTTCTTAGTGGCGTGTCC CCCTTCCTGGATGACAGTGTGGAAGAGACCTGCCTGAACATTTGCCGCTTAGAC TTTAGCTTCCCAGATGACTACTTTAAAGGAGTGAGCCAGAAGGCCAAGGAGTTC GTGTGCTTCCTCCTGCAGGAGGACCCCGCCAAGCGTCCCTCGGCTGCGCTGGCC CTCCAGGAGCAGTGGCTGCAGGCCGGCAACGGCAGAAGCACGGGCGTCCTCGAC ACGTCCAGACTGACTTCCTTCATTGAGCGGCGCAAACACCAGAATGATGTTCGA CCTATCCGTAGCATTAAAAACTTTCTGCAGAGCAGGCTTCTGCCTAGAGTTTGA		
Human hGIT1_v4	11	prey1512	633	ATGACACGTGGCACCGGGGGAACTGCCCAGCGTGGAAGGTCTGGGCCAGGTCTG AGCCCAGATGGGATCTGGATGGCCAAGGAACTCTACCTTAAAACCTCAAGTGTC AAGGAGGCAGGGGAGGGGCCAAGAGGGCTGGCAGGGGAAGGGGGCTGGGGAGGG GTCCCATTTGCAGAGGCTCTTAGGATCTTAGGAGGCCCGAATCCCACCATTTCT CTACTTGCTAGATCTCAGGGGCTGCTAGATTCATCCCTGATGGCATCAGGCACT GCCAGCCGCTCAGAGGATGAGGAGTCACTGGCAGGGCAGAAGCGAGCCTCCTCC CAGGCCTTGGGCACCATCCCTAAACGGAGAAGCTCCTCCAGGTTCATCAAGAGG AAGAAGTTCGATGATGAGCTGGTGGAGAGCAGCCTGGCAAAATCTTCTACCCGG GCAAAGGGGGCCAGTGGGGTGGAACCAGGGCGCTGTTCGGGGAGTGAACCCTCC TCCAGTGAGAAGAAGAAGGTATCCAAAGCCCCCAGCACTCCTGTGCCACCCAGC CCAGCCCCAGCCCCTGGACTCACCAAGCGTGTGAAGAAGAGTAAACAGCCACTT CAGGTGACCAAGGATCTGGGCCGCTGGAAGCCTGCAGATGACCTCCTGCTCATA AATGCTGTGTTGCAGACCAACGACCTGACCTCCGTCCACCTGGGCGTGAAATTC AGCTGCCGCTTCACCCTTCGGGAGGTCCAGGAGCGTTGGTACGCCCTGCTCTAC GATCCTGTCATCTCCAAGTTGGCCTGTCAGGCCATGAGGCAGCTGCACCCAGAG GCTATTGCAGCCATCCAGAGCAAGGCCCTGTTTAGCAAGGCTGAGGAGCAGCTG CTGAGCAAAGTGGGATCGACCAGCCAGCCCACCTTGGAGACCTTCCAGGACCTG CTGCACAGACACCCTGATGCCTTCTACCTGGCCCGTACCGCGAAGGCCCTGCAG	1371	MTRGTGGTAQRGRSGPGLSPDGI WMAKELYLKTSSVKEAGEGPRGL AGEGGWGGVPFAEALRILGGPNP TISLLARSQGLLDSSLMASGTAS RSEDEESLAGQKRASSQALGTIP KRRSSSRFIKRKKFDDELVESSL AKSSTRAKGASGVEPGRCSGSEP SSSEKKKVSKAPSTPVPPSPAPA PGLTKRVKKSKQPLQVTKDLGRW KPADDLLLINAVLQTNDLTSVHL GVKFSCRFTLREVQERWYALLYD PVISKLACQAMRQLHPEAIAAIQ SKALFSKAEEQLLSKVGSTSQPT LETFQDLLHRHPDAFYLARTAKA LQAHWQLMKQYYLLEDQTVQPLP KGDQVLNFSDAEDLIDDSKLKDM RDEVLEHELMVADRRQKREIRQL EQELHKWQVLVDSITGMSSPDFD

				GCCCACTGGCAGCTCATGAAGCAGTATTACCTGCTGGAGGACCAGACAGTGCAG CCGCTGCCCAAAGGGGACCAAGTGCTGAACTTCTCTGATGCAGAGGACCTGATT GATGACAGTAAGCTCAAGGACATGCGAGATGAGGTCCTGGAACATGAGCTGATG GTGGCTGACCGGCGCCAGAAGCGAGAGATTCGGCAGCTGGAACAGGAACTGCAT AAGTGGCAGGTGCTAGTGGACAGCATCACAGGCATGAGCTCTCCGGACTTCGAC AACCAGACACTGGCAGTGCTGCGGGGCCGCATGGTGCGGTACCTGATGCGCTCG CGTGAGATCACCCTGGGCAGAGCAACCAAGGATAACCAGATTGATGTGGACCTG TCTCTGGAGGGTCCGGCCTGGAAGATATCCCGGAAACAAGGTGTCATCAAGCTG AAGAACAACGGTGATTTCTTCATTGCCAATGAGGGTCGACGGCCCATCTACATC GATGGACGGCCGGTGCTCTGTGGCTCCAAATGGCGCCTCAGCAACAACTCTGTG GTGGAGATCGCCAGCCTGCGATTCGTCTTCCTTATCAACCAGGACCTCATTGCC CTCATCAGGGCTGAGGCTGCCAAGATCACACCACAGTGA		NQTLAVLRGRMVRYLMRSREITL GRATKDNQIDVDLSLEGPAWKIS RKQGVIKLKNNGDFFIANEGRRP IYIDGRPVLCGSKWRLSNNSVVE IASLRFVFLINQDLIALIRAEAA KITPQ*
Human hGIT1_v4	11	prey1566	634	TGCCATGCTTTTGCTGGGCTTGGCTGCCGAGAAGAAGGAGATAAACACCACCAT CATCAAAGAGCTGCTCAAGAAATTTTTAAAAACGAAACAAAGTTATGGGGTTAA TCTCCTACACAATTCATTTACTTCATTTGAATGTTAGAGCTACTCATGATTATT TGTGTTTCTAATTTATAGTTTAAGTTTATTTGTAAAAAGTTAAAAGAGAGTGGG TCTCTGTGCCTCTCACTGATGTTCACTCTGGCATCCTTTAGCATTTTTCTTTTT TCATTTCATAATTGTAGGTCATTAGCATGCATATCGAGTTTGCCCTTACGTGGT GGGAGTTCAAACACACAAAGACCCACTCTTTGCACAAAACTGTTCTCGCTGGTT TGGAATAGGCTCCCGTGCTTTTTTAATGTTATTGCAGCATGGATGTTCATTACA GAATTCAGATAAAATTTGCTAATGTTCTGCTATGATGTTTGATCTCATCTTAAT CACAGTGAGCTCTTCCATAGCTCAATATGCGGTTTGCCCTCAAGTGTGCACTGT TTATTACTTTGTAATATGCCACTATGAGTACTGACACTTAGAGCTGTTTAAAGG CCGAGAACTGGAAACAGCCTTTCCTCCATTTTCTGTGTATTGGTGATGGGAGTG ATAACCTTTTGGGGGAGCTTTCTAAATCTCGCAGAAGAGGAAAGTGGCCTGCTC TGGCAGGTATGTGCAGGATACAGTGTGTTTCATCTGTTCCGGTGCCAAGAATGA GCACTGTACTGTGGCAGTTCCCTTTGGATTTGTATGTGCTCTGGGCTCATGAAG ATATTGCATCGTGAGCTGCAGCAGTTGCACTCTTTTTCAGTGACCTAAAAATGG CTTATTTCCGAGGAATGAAAGGCTGCCATCGTTGGCTGTGGATGTGGAAAACCT TTCCTAGCTTAGAGCATTTGTATCTACAATACATTTTAAAGTCAGAGTTCGTGT TCCCTGTTTTAATCACATGACTACCTGTGCCAGTACACGAAAGGGCGCTGGTTG GCATTCTTCTTAATGTATTTAGTAAAGATCATAAGACATCCTTTAAGAGTTTAA ATGTCTCTGAAACAGGCATACAGGCTCTAGTCAAGAATGAATTAGAGTGAAGGA AAGCTGTGTGACACCTGGCATTCCTCTCTGTTCATGGAGCTTCTTTGAGGCTTG AAGTTTGATTTTACTATCTAGACCTCTCTGGCTAATACCTATTCTCCAACCACC TCGGTTACTCTGACATAGGAATTTACTTCTTTTCCTTGAGTGGAAAACACTTTA GAAAATAATAACAAACATTATTATAAACTAATATATGTGAGAGTACTTAGTTGA AACAAAAAGGAATTTTAGTAGACAGTATTA	1372	PCFCWAWLPRRRR*TPPSSKSCS RNF*KRNKVMGLISYTIHLLHLN VRATHDYLCF*FIV*VYL*KVKR EWVSVPLTDVHSGIL*HFSFFIS *L*VISMHIEFALTWWEFKHTKT HSLHKTVLAGLE*APVLF*CYCS MDVHYRIQIKFANVLL*CLISS* SQ*ALP*LNMRFALKCALFITL* YATMSTDT*SCLKAENWKQPFLH FLCIGDGSDNLLGELSKSRRRGK WPALAGMCRIQCVSSVPVPRMST VLWQFPLDLYVLWAHEDIAS*AA AVALFFSDLKMAYFRGMKGCHRW LWMWKTFPSLEHLYLQYILKSEF VFPVLIT*LPVPVHERALVGILL NVFSKDHKTSFKSLNVSETGIQA LVKNELE*RKAV*HLAFLSVHGA SLRLEV*FYYLDLSG*YLFSNHL GYSDIGIYFFSLSGKHFRK**QT LL*TNICEST*LKQKGILVDSI
Human	11	prey4271	635	GGAGAAGGATGAGTTGGGCGAGCAGGTCCTTGGCCTCAAGTCCCAGGTGGATGC	1373	EKDELGEQVLGLKSQVDAQLLTV

hGIT1_v4				CCAGCTGCTGACTGTGCAGAAGCTGGAGGAGAAGGAGCGAGCCTTGCAGGGCAG CCTCGGGGGTGTGGAGAAGGAGCTGACGCTGCGCAGCCAAGCCCTGGAGCTCAA CAAGCGGAAGGCTGTAGAAGCCGCCCAGCTGGCCGAGGACCTGAAGGTGCAGCT GGAGCACGTGCAGACTCGGCTGCGGGAGATCCAGCCCTGCCTGGCAGAGAGCCG GGCTGCTCGTGAGAAAGAGAGCTTCAACCTCAAGAGGGCTCAGGAGGACATCTC ACGGCTGCGGCGCAAGCTGGAAAAGCAGAGGAAGGTGGAGGTCTACGCAGATGC CGACGAAATCCTCCAGGAGGAGATCAAGGAGTACAAGGCGCGGTTGACCTGCCC CTGCTGTAACACCCGCAAGAAGGATGCAGTCCTTACCAAGTGCTTCCACGTTTT CTGCTTCGAGTGCGTGCGGGGCCGCTATGAGGCCCGCCAGAGGAAGTGCCCCAA GTGCAACGCGGCCTTTGGTGCCCACGACTTCCATCGTATCTACATCAGCTGA		QKLEEKERALQGSLGGVEKELTL RSQALELNKRKAVEAAQLAEDLK VQLEHVQTRLREIQPCLAESRAA REKESFNLKRAQEDISRLRRKLE KQRKVEVYADADEILQEEIKEYK ARLTCPCCNTRKKDAVLTKCFHV FCFECVRGRYEARQRKCPKCNAA FGAHDFHRIYIS*
Human hGIT1_v4	11	prey24333	636	CCACAGAAGCCTCTGGCTTCAGCAGTCTCAGAATGTCCATCAACAATGAAGACA AGAACAGTAGCACATCTCATGGAACCCACAGTAGAATGGCATGTTTATAATTAA TCAAACAGAGTCCCTATTGCATTTTAGCTCCATACTAAATGCCATGGAGGACTC AAAACAAACCC	1374	HRSLWLQQSQNVHQQ*RQEQ*HI SWNPQ*NGMFIINQTESLLHFSS ILNAMEDSKQT
Human hGIT1_v4	11	prey4307	637	GGAACAAGAGCACACAAATCGCTTGCGAGATGAAGCCAAACGCATCAAAGGAGA ACAAGAGAAAGAGTTGTCCAAATTTCAGAATATGCTGAAGAACCGAAAGAAGGA GGAACAAGAGTTTGTTCAGAAACAACAGCAAGAATTAGATGGCTCTCTGAAAAA GATCATCCAGCAGCAGAAGGCAGAGTTAGCTAATATTGAGAGAGAGTGCCTGAA TAACAAGCAACAGCTCATGAGAGCTCGAGAAGCTGCAATTTGGGAGCTCGAAGA ACGACACTTACAAGAAAAACACCAGCTGCTCAAACAGCAGCTTAAAGATCAGTA TTTCATGCAAAGACATCAGCTACTTAAGCGCCACGAGAAGGAAACAGAGCAAAT GCAGCGTTACAATCAAAGACTTATTGAGGAATTGAAAAACAGACAGACTCAAGA AAGAGCAAGACTGCCCAAGATTCAGCGCAGTGAAGCCAAGACTCGAATGGCCAT GTTTAAGAAGAGTTTGAGAATTAACTCAACAGCCACACCAGATCAGGACCGTGA TAAAATTAAACAGTTTGCTGCACAAGAAGAAAAGAGGCAGAAAAATGAGAGAAT GGCTCAGCATCAGAAACATGAGAATCAAATGCGAGATCTTCAGTTGCAGTGTGA AGCCAATGTCCGCGAACTGCATCAGCTGCAGAATGAAAAATGCCACTTGTTGGT TGAGCATGAGACTCAGAAACTGAAGGAGTTAGATGAGGAACATACAAGAATTAA AGGAGTGGAGAGAGAAATTGAGACCTAG	1375	EQEHTNRLRDEAKRIKGEQEKEL SKFQNMLKNRKKEEQEFVQKQQQ ELDGSLKKIIQQQKAELANIERE CLNNKQQLMRAREAAIWELEERH LQEKHQLLKQQLKDQYFMQRHQL LKRHEKETEQMQRYNQRLIEELK NRQTQERARLPKIQRSEAKTRMA MFKKSLRINSTATPDQDRDKIKQ FAAQEEKRQKNERMAQHQKHENQ MRDLQLQCEANVRELHQLQNEKC HLLVEHETQKLKELDEEHTRIKG VEREIET*
Human hGIT1_v4	11	prey4150	638	CTCTGCTGAGGCTCTACTGAAGAAACACGAAGCTTTGATGTCAGATCTCAGTGC CTACGGCAGCAGCATCCAGGCTTTGCGAGAACAAGCACAGTCCTGCCGGCAACA AGTGGCCCCCACGGATGATGAGACTGGGAAGGAGCTGGTCTTGGCTCTCTACGA CTATCAGGAGAAGAGTCCCCGAGAGGTCACCATGAAGAAGG	1376	SAEALLKKHEALMSDLSAYGSSI QALREQAQSCRQQVAPTDDETGK ELVLALYDYQEKSPREVTMKK
Human hGIT1_v4	11	prey4098	639	GGACAAGGAGCTGGAGCTGCTGAACGAAGAGCTGCGCAGCATCGAGCTGGAGTG CCTGAGCATCGTGCGCGCCCACAAGATGCAGCAGCTCAAGGAGCAGTACCGCGA GTCCTGGATGCTGCACAACAGCGGCTTCCGCAACTACAACACCAGCATCGACGT GCGCAGACACGAGCTCTCAGATATCACCGAGCTCCCGGAGAAATCCGACAAGGA CAACGCTCGAGCGCCTACAACACAGGCGAGAGCTGCCGCAGCA	1377	DKELELLNEELRSIELECLSIVR AHKMQQLKEQYRESWMLHNSGFR NYNTSIDVRRHELSDITELPEKS DKDNARAPTTQARAAAA

Human hGIT1_v4	11	prey24302	640	AAGTATCTCTGTATTCCTGTTAGGCTGTTTTTGTCTAATATCACCACCCACCT NCCCAGCCTGNCCAGTCTGCAACCTCGCAATAGNTACTTGACTCTCAGTTGNCC TTGGGATTTNATTTAAACCAGGNTNTTTATTNGAGAAATACCTCCNAANGAATG CCCNTTGCAGGNTAGGCNNANGNTAAATGATNAANANTAACTTCNACNCCCTNT GCCNCTTCCTGNTTACTCNNGTGNGTNGAGCTGATCTTNGACTGGNACTGGGGN ATNCCACTTGAGCTGGGAGGTNNGNGGAGTGCAGCGGNCANGAGGGTNGAGNGG NGGGTNGCGTTNNCNNNAAGGGGNGGNCNCANGNGGNNAGTNGGNGGNGNCGAN TGANNGCGGNGAGGNGACGGGNTNNGNAGGNNGGGANGGNNANNNNGTTNGGCG GTNNGGGGGNGN	1378	KYLCIPVRLFFV*YHHPPXQPXQ SATSQ*XLDSQLXLGFXLNQXXY XRNTSXXMPXAG*AXXK*XXXTS TPXAXSXLLXXVELIXDWXWGXP LELGGXXSAAXXRVEXXVAXXXR GGXXXXVGGXX*XRXGDGXXRXG XXXXXAVXGX
Human hGIT1_v4	11	prey19293	641	CAACTACATACAGGCTACAGACAAGAGAAAAGCTTTAGAGGAGACCAAAGCCTA TACAACCCAATCTCTAGCTAGTGTTGCTTATCAAATAAATGCATTGGCCAACAA TGTACTCCAGTTGCTGGATATCCAAGCCTCTCAGCTTCGGAGAATGGAGTCTTC CATCAATCATATCTCACAGACTGTGGATATTCATAAGGAGAAAGTGGCACGAAG AGAGATTGGTATTTTGACAACAAATAAGAATACATCAAGAACTCACAAAATAAT AGCACCTGCGAATATGGAGCGCCCTGTAAGGTATATTCGGAAACCTATCGATTA CACAGTTCTGGATGATGTGGGCCATGGTGTCAAGTGGCTAAAAGCCAAGCATGG AAATAACCAGCCTGCAAGAACTGGCACACTGTCGAGAACAAATCCTCTTACTCA GAAACCGCCAAGTCCTCCCATGTCAGGCCGGGGAACACTGGGACGGAATACTCC TTATAAAACCCTGGAACCTGTTAAACCCCCAACAGTTCCTAATGACTATATGAC CAGTCCTGCTAGGCTTGGAAGTCAGCATAGTCCAGGCAGGACAGCATCTTTAAA TCAGAGACCAAGGACACACAGTGGAAGTAGTGGAGGAAGTGGAAGTCGAGAAAA CAGTGGTAGCAGTAGTATTGGCATTCCCATTGCTGTGCCTACACCTTCGCC	1379	NYIQATDKRKALEETKAYTTQSL ASVAYQINALANNVLQLLDIQAS QLRRMESSINHISQTVDIHKEKV ARREIGILTTNKNTSRTHKIIAP ANMERPVRYIRKPIDYTVLDDVG HGVKWLKAKHGNNQPARTGTLSR TNPLTQKPPSPPMSGRGTLGRNT PYKTLEPVKPPTVPNDYMTSPAR LGSQHSPGRTASLNQRPRTHSGS SGGSGSRENSGSSSIGIPIAVPT PS
Human hGIT1_v4	11	prey4202	642	CGGAGCCGAATACCAAGCTCGGATCCCTGAATTTGATCCAGGTGCTACAAAGTA CACAGATAAAGACAATGGAGGGATGCTTGTATGGTCTCCATATCACAGTATCCC AGATGCCAAATTGGATGAATACATTGCAATTGCAAAGGAAAAGCATGGCTACAA TGTGGAACAGGCACTTGGCATGTTGTTCTGGCATAAACATAACATTGAGAAGTC CCTTGCTGATCTCCCTAATTTCACTCCCTTTCCGGATGAGTGGACAGTGGAAGA TAAAGTCCTATTTGAACAAGCCTTTAGTTTTCATGGAAAGAGCTTTCACAGGAT TCAGCAAATGCTTCCAGATAAGACAATTGCAAGCCTTGTAAAATATTACTATTC TTGGAAAAAAACTCGCTCTAGGACAAGTTTGATGGATCGCCAGGCTCGTAAACT AGCTAATAGACATAATCAGGGTGACAGTGATGATGATGTAGAAGAAACACATCC AATGGATGGGAATGATAGTGATTATGATCCCAAAAAAGAAGCCAAAAAAGAGGG TAATACTGAACAACCTGTCCAAACTAGCAAGATTGGACTTGGAAGAAGAGAGTA TCAGAGTTTACAACATCGCCATCATTCTCAGCGTTCTAAGTGCCGTCCACCTAA GGGCATGTATTTAACCCAGGAAGATGTGGTAGCAGTTTCCTGTAGTCCCAATGC AGCCAACACCATCCTGAGGCAACTGGACATGGAGTTGATCTCTCTAAAACGTCA GGTTCAGAATGCTAAGCAAGTAAACAGTGCACTTAAACAGAAAATGGAAG	1380	GAEYQARIPEFDPGATKYTDKDN GGMLVWSPYHSIPDAKLDEYIAI AKEKHGYNVEQALGMLFWHKHNI EKSLADLPNFTPFPDEWTVEDKV LFEQAFSFHGKSFHRIQQMLPDK TIASLVKYYYSWKKTRSRTSLMD RQARKLANRHNQGDSDDDVEETH PMDGNDSDYDPKKEAKKEGNTEQ PVQTSKIGLGRREYQSLQHRHHS QRSKCRPPKGMYLTQEDVVAVSC SPNAANTILRQLDMELISLKRQV QNAKQVNSALKQKME
Human hGIT1_v4	11	prey4088	643	TGATTCTCATTTTCAGCGTGTCAGTGCTGCGGTTTTGCCTTTAGTGCACCCGCT GCCAGAAGGGCTGAGGGCTTCTGCAGATGCTAAGAAGGATCCAGCATTCGGAGG	1381	DSHFQRVSAAVLPLVHPLPEGLR ASADAKKDPAFGGKHEAPSSPIS

				CAAACATGAAGCTCCATCCTCTCCAATTTCGGGGCAACCATGTGGAGATGATCA AAATGCTTCACCTTCAAAACTCTCAAAGGAAGAGTTAATACAGAGTATGGATCG TGTAGATCGAGAAATTGCAAAAGTAGAACAGCAGATCCTTAAACTGAAAAAGAA ACAACAACAGCTTGAAGAAGAGGCAGCTAAACCTCCTGAGCCTGAGAAGCCCGT GTCCCCTCCTCCTGTGGAGCAGAAACACCGCAGTATTGTCCAAATTATTTATGA TGAGAATCGGAAAAAAGCAGAAGAAGCTCATAAAATTTTTGAAGGTCTTGGCCC AAAAGTTGAACTGCCACTGTATAACCAGCCATCAGATACCAAGGTGTACCATGA GAACATCAAGACAAACCAGGTGATGAGGAAAAAACTCATTTTATTTTTTAAAAG AAGAAATCATGCAAGAAAACAAGGGAACAAAAAATCTGCCAGCGTTATGATCA GCTCATGGAGGCATGGGAGAAAAAAGTGGACAGAATAGAAAATAATCCTCGGAG GAAAGCTAAAGAAAGCAAAACAAGG		GQPCGDDQNASPSKLSKEELIQS MDRVDREIAKVEQQILKLKKKQQ QLEEEAAKPPEPEKPVSPPPVEQ KHRSIVQIIYDENRKKAEEAHKI FEGLGPKVELPLYNQPSDTKVYH ENIKTNQVMRKKLILFFKRRNHA RKQREQKICQRYDQLMEAWEKKV DRIENNPRRKAKESKTR
Human hGIT1_v4	11	prey4377	644	GGACCGTAGCCTGACGGGCAAGCTGGAACCGGTGTCTCCCCCCAGCCCCCCGCA CACTGACCCTGAGCTGGAGCTGGTGCCGCCACGGCTGTCCAAGGAGGAGCTGAT CCAGAACATGGACCGCGTGGACCGAGAGATCACCATGGTAGAGCAGCAGATCTC TAAGCTGAAGAAGAAGCAGCAACAGCTGGAGGAGGAGGCTGCCAAGCCGCCCGA GCCTGAGAAGCCCGTGTCACCGCCGCCCATCGAGTCGAAGCACCGCAGCCTGGT GCAGATCATCTACGACGAGAACCGGAAGAAGGCTGAAGCTGCACATCGGATTCT GGAAGGCCTGGGGCCCCAGGTGGAGCTGCCGCTGTACAACCAGCCCTCCGACAC CCGGCAGTATCATGAGAACATCAAAATAAACCAGGCGATGCGGAAGAAGCTAAT CTTGTACTTCAAGAGGAGGAATCACGCTCGGAAACAATGGAAGCAGAAGTTCTG CCAGCGCTATGACCAGCTCATGGAGGCCTTGGAAAAAAAGGTGGAGCGCATCGA AAACAACCCGCGCCG	1382	DRSLTGKLEPVSPPSPPHTDPEL ELVPPRLSKEELIQNMDRVDREI TMVEQQISKLKKKQQQLEEEAAK PPEPEKPVSPPPIESKHRSLVQI IYDENRKKAEAAHRILEGLGPQV ELPLYNQPSDTRQYHENIKINQA MRKKLILYFKRRNHARKQWKQKF CQRYDQLMEALEKKVERIENNPR
Human hGIT1_v4	11	prey24308	645	GAAATCTCTTCTCTTCATTCCCCTCACTGCAAGCGGCAACCAAGTCTGGGCACC ACAAGCAGCCACACCATGTTACCATATGTGCCTCTTCCAGGCATGGAAGCTACA TATAACACCAGCGGCAGTCAGACGAGGCTGGAGCCTCCATTCCCTGCCTTGGTA CCAAAGTCTTGCTTGGTAGCAGAATCAGCTGTCAGCAAGCTCCTGCTTTCAGCC TCTGAGTTCCAGGTTCGNGGATTGGATGAACCTGGATGGGTGGTGAAAGCAANC ATGGCCCCCTGCCCCACAGANGCAGNCCCCCCCANAAACAGAAAGGAGGGNTGG ANCCCANGAGAAAGAGGCCNANAGGAAAGGTNTCAACAGATTTGCNNNTTCCNG GGAAAAANCCCTTTTNNTTAAGGCCNNGNATCCCTTATTTNTTTACCCCCCGGN G	1383	EISSLHSPHCKRQPSLGTTSSHT MLPYVPLPGMEATYNTSGSQTRL EPPFPALVPKSCLVAESAVSKLL LSASEFQVRGLDEPGWVVKAXMA PCPTXAXPPXNRKEGWXPXERGX XERXQQICXFXGKXPFX*GXXSL IXLPPG
Human hGIT1_v4	11	prey19306	646	CAGGTATGTGGAATACGGTGAGGAAAAAAAAAATTAAAAAAAAAATGCAAGCTG TCAGGATGCTTAAGCTCTTTTCAGACATCTGCAGTTTCATCCCTACCTTGTTCA CATACCATCCAAGAGGCACATAGGCTACCCAAGAGAGCCTTGGATTCAGTGGTA CACTCCTTGGGCCCAAGGGCTTTAGCAGCTGGATATGGGGTTCCTTGATTTTCC TCTGGGCCCAAATATAGCCCTCACACTCTTGGAATTTCCAGGTATGGGGGTAGC CCCAAAAGGAGGAATCTCCTATGGCCAATAAGGTATCTTGACTTTATCAAAGTA GAAGAGAGGGTCACTTCGGAGTCAAATCATACACTAGGCCTTTGATGCTTTAAT TCTTCTTCAGTTCATTAAAAGTAACTACTAAGGAAAGGTTAAAAACTTCCCCTC	1384	QVCGIR*GKKKLKKKCKLSGCLS SFQTSAVSSLPCSHTIQEAHRLP KRALDSVVHSLGPRALAAGYGVP *FSSGPKYSPHTLGISRYGGSPK RRNLLWPIRYLDFIKVEERVTSE SNHTLGL*CFNSSSVH*K*LLRK G*KLPLKKESTPGSNYLQRFSQI LYNLSWKANPF*NLMSGL*VLAH

				AAAAAGGAATCAACCCCAGGAAGTAATTATTTACAACGATTTTCCCAAATTTTG TACAATCTGTCCTGGAAAGCAAACCCCTTTTAAAATCTAATGTCTGGGCTTTGA GTATTAGCTCATTTAGGGTGGACAAATGCATTACTGTTTTCAAACTGCTCACAT TTATTCAGTATTTCTCCAAGTTGCTATCTACTCAGCCTTATGAATGCCCCTCGC TTTTCTAAGGCCATGTGAAAATCACGGCACTGCCCTTAGCCTTGTGTCATCTGC TTTTTCGTTCTGCGATATGCCCAGTTCCCAAATCAATTATAGGTACCTGTTTAG GAGAGAGGAAGATTTTACCTCTCAAAGGGTGAGATTTGAAATTTACACTAAAAA GACAACTTTACATTTAATGCTTCACTTAATGAGACATTCTTTTTTTTATAAGTC TATTTTTCTACTCAGTTTCAGAACACTAATCTGATTTTCACTCTGATTTTTAAC GTTTCTTTAAATATTTATAATGTAGCTTCTTTCAAAATATTTTCATGAAAAATT ACTTTTATTATACCATTATGTGCATGTTATTGGTAGCAGGCATAGTTTATTATT TAGTACTGAAACATGCTCTTTTACCTAACAGTAAACAAGTATGTTTTGATATAT ATCTGTTAATATGCTTATAGTGGTAAGAAATGGACTTGAGGTCCCAGGAGATTT CATTTTATTCACCCTGGTCAGATACAATAAAGGCTATGAGTATAAATACATAAC TTCCTAACCAGGTGTAGGGCATGTTCATGAATATCAAATCTTTTGATGCTGGAC CCAAGAGAGGAAAAGTTGTAGCTAAATGTTGATTTACTTATAACTAGACGTCTA TGTGAGAAAATATATGTATACATATATATGATATGCAGAAGTCACTTTTTTTAT CAGGCTTTATTCTCCTTACAAAGCCACAGTTTAACTGTCTGCAACAGTTGGTTT ATGTTAATGATAGACAAATACCCAGTGTTTGTTACTTTTTCCAACTACCACTGT AATGATAATCTTTCTCACGTATATACATGCAACTTCTTGGCTTCATTTCCATGA AGCTGTTTCAATATATTCAGTATACTTTGTCCTTAATGCTGCTTCTGTTAACAG TGATCTCTTTCTTTTTTTCATTCTTATATCTTCATTAGTTCATCATAAATCTGT CCAGTTGAGGCCTCAGGACCACGGCATGATTTCATGACTCCGAAGTATTTTACA GAAACATTTTTTAAATAAGGGAAATATTTTATATACCAGATGGTTCACAAGTGA TGGCTCATAGCTAGTTTTTTTTTTTTCTTCTAAAAAATGTCAGGTTTTTAAAATC ATTTACCTTATTAAAATGAAAAGTGCCATACTTAACTTTTAAAGGAAAGACCTG ACTTGCTTTTTCTCTATTTAGACTGTTTTTGTACTTTACTAATCTTTAAACTAT CAGGAAAAAAACCAAAACTTTATACCAATGATTTAGTAATTTTGAGGCATAGGG TAGCTTACGTAGTGGAGGATGTGCCAAATATTCTCTTCAAATGCCACCTTCTCA ATTTATAACTAAAATAGTGTTATCTGACTAATTCCTCTGAATTTTGATGTAAGA TCTATATAGGCCCCCAAAATGATCGTAGTACATGCCAGTCATTTCTCAGTGAAA TAAATACAATACCAGAGTACATTATGGGTTTTATTGCTTTCTTTTATGGTAGAC CTGTTAATGGGGAAAAAAATACATCAAATCAAATAGAATCTTATATCTGTATGTT AAAATAGAGCACTTACCTGAAGTCAGTGGCCTGGATCATAGCCCTGGATCATTT CCCAGTCTGTCCTGTGCTGTGTGACCTTGGACAAGGCGCTTCATCTCTCTGGGC CTCTATTTCTCCATTTGTAAAACAAGTGGCTGCAGTAGATGATGGCTGAGAGCC CTTCCTGTTCCCAGATGCCTTGGTCCAAAGACCCCACCCCTCTGCTGGTCCTGC CAACGTGTTGGTGCTATAAGCTGCTTCAGATATAAAATTGGTTTATCTATAATG TTTGTTCATTTAATAGCTTCTAAAAGGCCTTTTTGTTATACAGTGCTTTTTTTC		LGWTNALLFSNCSHLFSISPSCY LLSLMNAPRFSKAM*KSRHCP*P CVICFFVLRYAQFPNQL*VPV*E RGRFYLSKGEI*NLH*KDNFTFN ASLNETFFFL*VYFSTQFQNTNL IFTLIFNVSLNIYNVASFKIFS* KITFIIPLCACYW*QA*FII*Y* NMLFYLTVNKYVLIYIC*YAYSG KKWT*GPRRFHFIHPGQIQ*RL* V*IHNFLTRCRACS*ISNLLMLD PREEKL*LNVDLLITRRLCEKIY VYIYMICRSHFFYQALFSLQSHS LTVCNSWFMLMIDKYPVFVTFSN YHCNDNLSHVYTCNFLASFP*SC FNIFSILCP*CCFC*Q*SLSFFH SYIFISSS*ICPVEASGPRHDFM TPKYFTETFFK*GKYFIYQMVHK *WLIASFFFSSKKCQVFKIIYLI KMKSAILNF*RKDLTCFFSI*TV FVLY*SLNYQEKNQNFIPMI**F *GIG*LT*WRMCQIFSSNATFSI YN*NSVI*LIPLNFDVRSI*APK MIVVHASHFSVK*IQYQSTLWVL LLSFMVDLLMGKKYIKSNRILYL YVKIEHLPEVSGLDHSPGSFPSL SCAV*PWTRRFISLGLYFSICKT SGCSR*WLRALPVPRCLGPKTPP LCWSCQRVGAISCFRYKIGLSIM FVHLIASKRPFCYTVLFF*FYGL GYCNNVLFLAM*LQTDILLMS** ICI*YIIDEILLLCNILWLRICP ASY*P*YCDHYLEICPMERIKAC TSQLACSQI*KKFH*KHHCFQKK KK

				TAGTTTTATGGACTTGGTTACTGTAATAATGTCTTGTTTTTAGCCATGTAACTA CAAACAGATATTCTCTTGATGTCTTAGTAAATTTGCATTTGATATATTATTGAT GAGATTTTGTTGTTATGTAATATTCTTTGGCTACGCATCTGTCCAGCATCTTAT TAACCATAATACTGTGATCATTATTTGGAAATATGTCCTATGGAAAGAATAAAA GCATGTACTTCACAGCTAGCATGTTCACAGATTTGAAAGAAGTTTCATTAAAAG CACCATTGCTTTCAAAAAAAAAAAAAAA		
Human hGIT1_v4	11	prey19309	647	CTCTTACTTGTCCTGCTGCTGCTGCTCGAGGACGCTGGAGCCCAGCAAGTTATG GAGGCTAGAATTCTGACAGCAGGGTGTGCAGAGGGCCATGCTCTTTCCTAA	1385	LLLVLLLLLEDAGAQQVMEARIL TAGCAEGHALS*
Human hGIT1_v4	11	prey2026	648	GGCGGGTGGTAACAGCACACGAGAGCGGCTGCTGTCTGCGCTTGAGGACTTGGA GGTCCTGTCTAGGGAACTTATAGAAATGCTGGCAATTTCAAGAAACCAAAAGTT GTTACAGGCTGGAGAGGAAAACCAGGTCCTGGAGTTGTTAATTCACCGAGATGG GGAATTTCAAGAACTAATGAAATTGGCACTTAATCAGGGAAAAATTCATCATGA AATGCAAGTTTTAGAAAAAGAAGTAGAGAAGAGAGACAGTGATATTCAGCAGCT ACAAAAACAGCTAAAGGAAGCAGAACAAATACTGGCAACAGCTGTTTACCAAGC GAAGGAGAAACTCAAGTCAATAGAAAAAGCAAGAAAAGGTGCTATCTCCTCTGA AGAAATAATTAAGTATGCACATAGGATCAGTGCAAGTAATGCTGTATGTGCTCC ACTGACCTGGGTTCCAGGGGACCCCCGGAGACCCTACCCAACTGATTTAGAGAT GAGAAGTGGGTTACTGGGTCAGATGAACAATCCTTCCACTAATGGCGTGAATGG CCATTTACCAGGAGATGCACTTGCAGCAGGAAGATTGCCAGATGTCCTTGCTCC ACAGTATCCATGGCAGTCAAATGACATGTCGATGAATATG	1386	AGGNSTRERLLSALEDLEVLSRE LIEMLAISRNQKLLQAGEENQVL ELLIHRDGEFQELMKLALNQGKI HHEMQVLEKEVEKRDSDIQQLQK QLKEAEQILATAVYQAYEKLKSI EKARKGAISSEEIIKYAHRISAS NAVCAPLTWVPGDPRRPYPTDLE MRSGLLGQMNNPSTNGVNGHLPG DALAAGRLPDVLAPQYPWQSNDM SMNM
Human hGIT1_v4	11	prey24318	649	TCAGAAGGAAGCATCCTTAGGANAATCNTCCTTGGCCATGATCTTCTTGGGGCT CACCATCTCCNGAATGAAAGCAATTTCTTCAGTAGACNTAAGGACAGTTTATGC TGAAATGGCAATTCCTCATTTAAGCAAGTTTTCCCAACCTTCAGGTTGGTCAGG CCCTCCTGAGCCTCACAGGTGGATAATTGAGGCCTACAAGAGAGGGGAGCCTAG GAGCTTGGATTGACCTTCCTAGTCAACCACCTGACTTCAGCACACCATTACAAT CGGGAGNCTAAACCAACAAC	1387	RRKHP*XNXPWP*SSWGSPSPE* KQFLQ*T*GQFMLKWQFLI*ASF PNLQVGQALLSLTGG*LRPTREG SLGAWIDLPSQPPDFSTPLQSGX *TNN
Human hGIT1_v4	11	prey3596	650	ATGTCCAAGCGGCACCGGTTGGACCTAGGGGAGGATTACCCCTCTGGCAAGAAG CGTGCGGGGACCGATGGGAAGGATCGAGATCGAGACCGGGATCGTGAAGATCGG TCTAAAGATCGAGACCGAGAACGTGATAGAGGAGATAGAGAGCGAGAGAGGGAG AAAGAAAAGGAGAAGGAGTTGCGAGCTTCAACAAATGCTATGCTTATCAGTGCT GGATTACCACCCCTGAAAGCTTCCCATTCAGCTCACTCAACCCACTCAGCACAT TCAACGCATTCTACACATTCTGCTCATTCAACGCATGCCGGACATGCAGGTCAC ACGTCACTTCCACAGTGCATTAATCCGTTCACCAACTTACCCCATACTCCTCGA TACTATGATATTCTAAAGAAACGTCTTCAGCTCCCTGTTTGGGAATACAAGGAT AGGTTTACAGATATTCTGGGTAGACATCAGTCCTTTGTACTGGTTGGTGAGACT GGGTCTGGTAAAACAACACAAATTCCACACCGGTGTGTGGAGTACATGCGATCA TTACCAGGACCCAAGAGAGGAGTTGCCTGTACCCAACCCAGGAGAGTGGCTGCA ATGAGTGTGGCTCAGAGAGTTGCTGATGAGATGGATGTGATGTTGGGCCAGGAA GTTGGTTACTCCATTCGATTTGAAGACTGCAGTAGTGCAAAAACATTTTTTATG	1388	MSKRHRLDLGEDYPSGKKRAGTD GKDRDRDRDREDRSKDRDRERDR GDREREREKEKEKELRASTNAML ISAGLPPLKASHSAHSTHSAHST HSTHSAHSTHAGHAGHTSLPQCI NPFTNLPHTPRYYDILKKRLQLP VWEYKDRFTDILGRHQSFVLVGE TGSGKTTQIPHRCVEYMRSLPGP KRGVACTQPRRVAAMSVAQRVAD EMDVMLGQEVGYSIRFEDCSSAK TFFMYMTDGMLLREAMNDPLLER YGVIILDEAHERTLATDILMGVL KEVVRQRSDLKVIVMSATLDAGK

				TATATGACTGATGGGATGTTACTTCGTGAAGCTATGAATGATCCCCTCCTGGAG CGTTATGGTGTAATAATTCTTGATGAGGCTCATGAGGACACTGGCTACAGAT ATTCTAATGGGTGTTCTGAAGGAAGTTGTAAGACAGAGATCAGATTTAAAGGTT ATAGTTATGAGCGCTACTCTAGATGCAGGAAAATTCCAGATTTACTTTGATAAC TGTCCTCTCCTAACTATTCCTGGGCGTACACATCCTGTTGAGATCTTCTATACT CCAGAACCAGAGAGAGATTATCTTGAAGCAGCAATTCGAACAGTTATCCAGATT CATATGTGTGAAGAGGAAGAGGGAGATCTTCTTCTTTTCTTAACTGGTCAAGAG GAAATTGATGAAGCCTGTAAGAGAATAAAGCGTGAAGTTGATGATTTGGGCCCT GAAGTTGGTGACATTAAAATCATTCCATTGTATTCTACACTTCCACCTCAGCAG CAGCAACGCATTTTTGAGCCTCCACCTCCCAAAAAACAGAATGGAGCAATTGGA AGAAAGGTAGTTGTGTCAACTAACATAGCAGAGACGTCTTTGACAATAGATGGT GTGGTGTTTGTGATTGATCCTGGATTTGCGAAACAGAAGGTCTACAATCCTCGA ATCAGAGTTGAGTCCCTTTTGGTGACAGCTATTAGTAAAGCTTCAGCTCAGCAA AGGGCTGGTCGAGCTGGACGTACCAGACCTGGAAAATGCTTCAGACTTTACACA GAGAAAGCTTATAAAACAGAAATGCAGGATAACACCTATCCTGAGATTTTGCGT TCTAATTTAGGATCAGTTGTGTTACAATTGAAGAAACTTGGTATTGATGACTTG GTACATTTTGATTTTATGGATCCACCAGCTCCTGAAACTCTGATGAGAGCCCTG GAACTTTTGAATTACCTGGCTGCTTTAAATGATGATGGAGATCTGACTGAATTG GGATCCATGATGGCAGAGTTTCCTCTAGATCCACAGCTCGCAAAAATGGTTATT GCAAGTTGTGACTACAACTGTTCTAATGAGGTCCTATCTATTACTGCTATGTTG TCAGTCCCACAGTGTTTTGTTCGCCCCACGGAGGCCAAGAAAGCCGCAGATGAG GCCAAGATGAGATTTGCCCACATAGATGGAGATCATCTGACACTGCTGAACGTC TACCATGCTTTTAAACAAAATCATGAATCGGTTCAGTGGTGTTATGACAACTTC ATTAACTACAGGTCCCTGATGTCCGCGGACAATGTACGCCAGCAGCTATCTCGA ATTATGGACAGATTTAATTTGCCTCGTCGAAGTACTGACTTTACAAGCAGGGAC TATTATATTAATATAAGAAAAGCTTTGGTTACTGGGTATTTTATGCAGGTGGCA CATTTAGAACGAACAGGGCATTACTTAACTGTGAAAGATAACCAGGTGGTTCAG TTGCATCCCTCTACTGTTCTTGACCACAAACCTGAATGGGTGCTTTATAATGAG TTTGTTCTAACAACAAAGAATTACATCCGGACATGTACAGACATCAAGCCAGAA TGGTTGGTGAAAATTGCCCCTCAATATTATGACATGAGCAATTTCCCACAGTGT GAAGCAAAGAGACAGTTGGACCGCATCATTGCCCAAACTTCAATCCAAGGAATA TTCACAGTACTGAATTCAGTGCTTAGAACTGAAGTTATTGAGAGGACAGCTTTA AAAGATGAATGA		FQIYFDNCPLLTIPGRTHPVEIF YTPEPERDYLEAAIRTVIQIHMC EEEEGDLLLFLTGQEEIDEACKR IKREVDDLGPEVGDIKIIPLYST LPPQQQQRIFEPPPPKKQNGAIG RKVVVSTNIAETSLTIDGVVFVI DPGFAKQKVYNPRIRVESLLVTA ISKASAQQRAGRAGRTRPGKCFR LYTEKAYKTEMQDNTYPEILRSN LGSVVLQLKKLGIDDLVHFDFMD PPAPETLMRALELLNYLAALNDD GDLTELGSMMAEFPLDPQLAKMV IASCDYNCSNEVLSITAMLSVPQ CFVRPTEAKKAADEAKMRFAHID GDHLTLLNVYHAFKQNHESVQWC YDNFINYRSLMSADNVRQQLSRI MDRFNLPRRSTDFTSRDYYINIR KALVTGYFMQVAHLERTGHYLTV KDNQVVQLHPSTVLDHKPEWVLY NEFVLTTKNYIRTCTDIKPEWLV KIAPQYYDMSNFPQCEAKRQLDR IIAQTSIQGIFTVLNSVLRTEVI ERTALKDE*
Human hGIT1_v4	11	prey15125	651	GGAGTTGCTGAATTCCACCCCAGAATCCCACCCAG	1389	ELLNSTPESHP
Human hGIT1_v4	11	prey12722	652	TACCGAGCACGGGCGCTGGAACTAGAGGCCGAGGTGGCAGAGATGCGACAGATG TTGCAGTCAGAGCATCCATTTGTGAATGGAGTTGAGAAGCTGGTGCCAGACTCT CTGTATGTTCCTTTCAAAGAGCCCAGCCAGAGCCTGCTGGAAGAGATGTTCCTG ACTGTGCCGGAATCACATAGAAAGCCTCTCAAGCGCAGCAGCAGTGAGACGATC	1390	YRARALELEAEVAEMRQMLQSEH PFVNGVEKLVPDSLYVPFKEPSQ SLLEEMFLTVPESHRKPLKRSSS ETILSSLAGSDIVKGHEETCIRR

				CTCAGCAGCTTGGCAGGGAGTGACATCGTGAAGGGCCACGAGGAGACCTGCATC AGGAGGGCCAAGGCTGTGAAACAGAGGGGCATCTCCCTTCTGCACGAAGTGGAC ACGCAGTACAGCGCCCTGAAGGTGAAGTATGAAGAGTTGCTGAAGAAGTGCCAA GAGGAACAGGACTCCCTGTCACACAAGGCTGTGCAGACCTCCAGGGCTGCAGCC AAGGACCTGACTGGAGTGAACGCCCAGTCTGAGCCTGTTGCCAGCGGCTGGGAA CTGGCCTCTGTCAACCCAGAGCCCGTGAGTTCCCCTACAACACCTCCAGAATAC AAAGCGTTGTTTAAGGAGATCTTTAGTTGCATCAAGAAAACTAAGCAGGAAATA GATGAACAGAGAACAAAATACCGATCACTCTCCTCTCATTCTTAATTGAACCTC TAGCTCTACTACTAATTTGCCTATTGCCTATCGCCTCTCTCTCCCATTCAGACA AGTGTTTGTAGACTCT		AKAVKQRGISLLHEVDTQYSALK VKYEELLKKCQEEQDSLSHKAVQ TSRAAAKDLTGVNAQSEPVASGW ELASVNPEPVSSPTTPPEYKALF KEIFSCIKKTKQEIDEQRTKYRS LSSHS*LNL*LYY*FAYCLSPLS PIQTSVCRL
Human hGIT1_v4	11	prey1857	653	ATGGCAGGAGAGCTGGCTGACAAAAAGGACCGTGATGCATCACCTTCCAAGGAG GAAAGGAAGCGATCACGGACTCCTGACAGAGAGCGGGATAGAGACCGGGACCGG AAGTCTTCCCCATCTAAAGATAGAAAGCGGCATCGTTCAAGGGATAGACGTCGA GGAGGCAGCCGTTCTCGCTCTCGTTCCCGTTCCAAATCTGCAGAAAGAGAACGA CGGCACAAAGAACGAGAACGAGATAAGGAGCGGGATCGGAATAAGAAGGACCGA GATCGAGACAAGGATGGGCACAGACGGGACAAGGACCGTAAACGATCCAGCTTA TCTCCTGGTCGAGGAAAAGACTTTAAATCTCGGAAGGACAGAGACTCTAAGAAG GATGAAGAGGATGAACATGGTGATAAGAAGCTTAAGGCCCAGCCATTATCCCTG GAGGAGCTTCTGGCCAAGAAAAAGGCTGAGGAAGAAGCTGAGGCTAAGCCCAAG TTCCTCTCTAAAGCAGAACGAGAGGCTGAAGCTCTAAAGCGACGGCAGCAGGAG GTGGAAGAGCGGCAGAGGATGCTTGAAGAAGAGAGGAAGAAAAGGAAACAGTTC CAAGACTTGGGCAGGAAGATGTTGGAAGATCCTCAGGAACGGGAACGTCGGGAA CGCAGGGAGAGGATGGAACGGGAGACCAATGGAAATGAGGATGAGGAAGGGCGG CAGAAGATCCGGGAAGAGAAGGATAAGAGCAAGGAACTGCATGCCATTAAGGAG CGTTACCTGGGTGGCATCAAAAAGCGGCGCCGAACGAGACATCTCAATGACCGG AAATTTGTTTTTGAGTGGGATGCATCTGAGGAGACATCCATTGACTACAACCCC CTGTACAAAGAACGGCACCAGGTGCAGTTGTTAGGGCGAGGCTTCATTGCAGGC ATTGACTTCAAGCAGCAGAAGCGAGAGCAGTCACGTTTCTATGGAGACCTAATG GAGAAGAGGCGAACCCTGGAAGAAAAGGAGCAGGAGGAGGCAAGACTCCGCAAA CTTCGTAAGAAGGAAGCCAAGCAGCGCTGGGATGATCGTCATTGGTCTCAGAAA AAGTTAGATGAGATGACGGACAGGGACTGGCGGATCTTCCGTGAGGACTACAGC ATCACCACCAAAGGTGGCAAGATCCCCAATCCCATCCGATCCTGGAAAGACTCT TCTCTGCCCCCACACATCTTGGAGGTCATTGATAAGTGTGGCTACAAGGAACCA ACACCTATCCAGCGTCAGGCAATTCCCATTGGGCTACAGAATCGTGACATCATT GGTGTGGCTGAGACTGGCAGTGGCAAGACAGCAGCCTTCCTCATCCCTCTGCTG GTCTGGATCACCACACTTCCCAAAATTGACAGGATCGAAGAGTCAGACCAAGGC CCTTATGCCATCATCCTGGCTCCCACCCGTGAGTTGGCTCAACAGATTGAGGAA GAGACCATCAAGTTTGGGAAACCGCTAGGTATCCGCACTGTGGCTGTCATTGGT GGCATCTCCAGAGAAGACCAGGGCTTCAGGCTGCGCATGGGTTGTGAGATTGTG	1391	MAGELADKKDRDASPSKEERKRS RTPDRERDRDRDRKSSPSKDRKR HRSRDRRRGGSRSRSRSRSKSAE RERRHKERERDKERDRNKKDRDR DKDGHRRDKDRKRSSLSPGRGKD FKSRKDRDSKKDEEDEHGDKKLK AQPLSLEELLAKKKAEEEAEAKP KFLSKAEREAEALKRRQQEVEER QRMLEEERKKRKQFQDLGRKMLE DPQERERRERRERMERETNGNED EEGRQKIREEKDKSKELHAIKER YLGGIKKRRRTRHLNDRKFVFEW DASEETSIDYNPLYKERHQVQLL GRGFIAGIDFKQQKREQSRFYGD LMEKRRTLEEKEQEEARLRKLRK KEAKQRWDDRHWSQKKLDEMTDR DWRIFREDYSITTKGGKIPNPIR SWKDSSLPPHILEVIDKCGYKEP TPIQRQAIPIGLQNRDIIGVAET GSGKTAAFLIPLLVWITTLPKID RIEESDQGPYAIILAPTRELAQQ IEEETIKFGKPLGIRTVAVIGGI SREDQGFRLRMGCEIVIATPGRL IDVLENRYLVLSRCTYVVLDEAD RMIDMGFEPDVQKILEHMPVSNQ KPDTDEAEDPEKMLANFESGKHK YRQTVMFTATMPPAVERLARSYL RRPAVVYIGSAGKPHERVEQKVF LMSESEKRKKLLAILEQGFDPPI

				ATTGCTACCCCTGGGCGTTTGATTGATGTGCTGGAGAACCGCTACCTGGTGCTG AGCCGCTGTACCTATGTGGTTCTGGATGAGGCAGATAGGATGATTGACATGGGC TTTGAGCCAGATGTCCAGAAGATCCTGGAGCACATGCCTGTCAGCAACCAGAAG CCAGACACGGATGAGGCTGAGGACCCTGAGAAGATGCTGGCCAACTTTGAGTCG GGAAAACATAAGTACCGCCAAACAGTCATGTTCACGGCCACCATGCCCCCAGCG GTGGAGCGTCTGGCCAGGAGCTATCTTCGGCGACCTGCTGTGGTGTACATTGGC TCCGCAGGCAAGCCCCATGAGCGTGTGGAACAGAAGGTCTTCCTCATGTCAGAG TCAGAAAAGAGGAAAAAGCTGCTGGCAATCTTGGAGCAAGGCTTTGACCCACCC ATCATTATTTTTGTCAACCAGAAGAAGGGCTGCGACGTGTTGGCCAAATCCCTG GAGAAGATGGGGTACAATGCTTGCACACTGCACGGTGGAAAAGGCCAGGAGCAG CGAGAGTTTGCGTTGTCCAACCTCAAGGCTGGGGCCAAGGATATTTTGGTGGCT ACAGATGTGGCTGGTCGTGGTATTGACATCCAAGATGTGTCTATGGTTGTCAAC TATGATATGGCCAAAAATATTGAAGATTACATCCACCGCATTGGCCGCACGGGA CGAGCAGGCAAGAGTGGGGTGGCCATCACCTTCCTCACAAAAGAGGACTCTGCT GTGTTCTACGAGCTGAAGCAAGCTATCCTGGAAAGCCCAGTGTCTTCCTGTCCC CCCGAACTAGCCAACCACCCAGATGCCCAGCATAAGCCAGGCACCATCCTCACC AAGAAGCGCCGGGAAGAGACCATCTTTGCCTGA		IIFVNQKKGCDVLAKSLEKMGYN ACTLHGGKGQEQREFALSNLKAG AKDILVATDVAGRGIDIQDVSMV VNYDMAKNIEDYIHRIGRTGRAG KSGVAITFLTKEDSAVFYELKQA ILESPVSSCPPELANHPDAQHKP GTILTKKRREETIFA*
Human hGIT1_v4	11	prey2492	654	ATGCTATTCCATGGAATGAGTGCTGATTTTACAAGTGAGAATTTCTCAGCAGCC TGGTATCTTATAGAGAATCACTCAAACACCAGTTTTGAGCAGCTCAAAATGGCA GTCACCAACCTAAAGAGACAGGCTAACAAGAAGAGTGAGGGCAGCCTGGCCTAT GTGAAAGGCGGTCTCAGTACATTCTTCGAAGCACAGGATGCCCTCTCAGCCATC CATCAAAAACTAGAAGCAGATGGAACGGAAAAAGTAGAAGGATCCATGACGCAG AAACTGGAGAATGTTCTGAACAGAGCAAGTAATACTGCAGACACATTGTTTCAA GAAGTATTAGGTCGGAAAGACAAGGCAGATTCCACTAGAAATGCACTCAATGTG CTTCAGCGATTTAAGTTTCTTTTCAACCTTCCTCTAAATATTGAAAGGAATATT CAAAAGGGTGATTATGATGTGGTTATTAATGATTATGAAAAGGCCAAGTCACTT TTTGGGAAAACGGAGGTGCAAGTTTTCAAGAAATATTATGCTGAAGTAGAAACA AGGATTGAAGCTTTAAGAGAATTACTTCTGGATAAATTGCTTGAGACACCATCA ACTTTACATGACCAAAAACGTTACATAAGGTACCTGTCTGACCTTCATGCGTCT GGTGACCCTGCTTGGCAATGCATTGGAGCCCAACACAAGTGGATCCTTCAGCTC ATGCACAGTTGCAAAGAGGGCTACGTGAAAGATCTGAAAGGTAACCCAGGCCTG CACAGTCCCATGTTGGATCTTGATAATGATACACGTCCCTCAGTGTTGGGCCAT CTCAGTCAGACAGCGTCCCTGAAGAGGGGCAGCAGCTTTCAGTCTGGTCGAGAC GACACGTGGAGATACAAAACTCCCCACAGGGTGGCCTTTGTTGAAAAATTGACA AAACTCGTCTTGAGCCAGCTGCCTAACTTCTGGAAACTCTGGATCTCCTACGTT AATGGAAGCCTCTTCAGTGAGACTGCTGAGAAGTCAGGCCAGATTGAAAGATCA AAGAATGTAAGGCAAAGACAAAATGATTTTAAGAAAATGATTCAGGAAGTAATG CACTCCCTGGTGAAGCTTACCCGCGGAGCCCTGCATCCCCTCAGCATCCGGGAT GGGGAAGCCAAGCAGTACGGAGGCTGGGAGGTGAAGTGCGAGCTCTCCGGACAG	1392	MLFHGMSADFTSENFSAAWYLIE NHSNTSFEQLKMAVTNLKRQANK KSEGSLAYVKGGLSTFFEAQDAL SAIHQKLEADGTEKVEGSMTQKL ENVLNRASNTADTLFQEVLGRKD KADSTRNALNVLQRFKFLFNLPL NIERNIQKGDYDVVINDYEKAKS LFGKTEVQVFKKYYAEVETRIEA LRELLLDKLLETPSTLHDQKRYI RYLSDLHASGDPAWQCIGAQHKW ILQLMHSCKEGYVKDLKGNPGLH SPMLDLDNDTRPSVLGHLSQTAS LKRGSSFQSGRDDTWRYKTPHRV AFVEKLTKLVLSQLPNFWKLWIS YVNGSLFSETAEKSGQIERSKNV RQRQNDFKKMIQEVMHSLVKLTR GALHPLSIRDGEAKQYGGWEVKC ELSGQWLAHAIQTVRLTHESLTA LEIPNDLLQTIQDLILDLRVRCV MATLQHTAEEIKRLAEKEDWIVD NEGLTSLPCQFEQCIVCSLQSLK GVLECKPGEASVFQQPKTQEEVC

				TGGCTCGCTCACGCCATCCAGACTGTAAGACTTACTCATGAATCGTTGACTGCC CTTGAAATTCCTAATGACCTGTTACAGACTATCCAGGATCTCATCTTGGATCTC CGAGTACGTTGCGTAATGGCCACGTTGCAGCACACGGCGGAAGAAATAAAGAGA TTAGCTGAAAAAGAAGACTGGATTGTTGACAATGAAGGACTGACTTCTCTACCA TGTCAGTTTGAACAGTGCATCGTGTGTTCTCTGCAGTCACTGAAGGGGGTTCTG GAGTGCAAGCCGGGAGAGGCTAGTGTCTTCCAACAACCTAAAACACAGGAGGAG GTTTGCCAGCTAAGCATCAATATAATGCAGGTTTTTATATACTGTCTGGAACAG TTGAGCACCAAGCCTGATGCAGATATAGATACTACACATCTCTCTGTTGATGTT TCTTCCCCTGACTTGTTTGGAAGTATCCATGAAGACTTCAGCTTGACCTCAGAA CAGCGCCTTTTGATAGTCCTAAGTAATTGCTGCTATCTAGAACGTCACACCTTC CTAAATATCGCAGAACATTTTGAAAAGCACAACTTCCAGGGAATAGAAAAAATC ACACAGGTTAGCATGGCCTCATTGAAAGAACTAGATCAAAGACTCTTTGAAAAT TACATCGAGTTGAAAGCAGATCCCATCGTTGGCTCCTTAGAACCTGGAATTTAT GCAGGATATTTTGATTGGAAGGACTGCCTGCCTCCAACAGGTGTCAGAAACTAT TTAAAAGAAGCACTGGTGAATATAATTGCCGTGCATGCAGAGGTGTTCACCATT TCCAAAGAACTGGTCCCTCGGGTACTATCCAAGGTGATAGAAGCAGTTTCTGAA GAGCTCAGTCGACTGATGCAGTGTGTTTCATCCTTCAGCAAAAATGGAGCTTTA CAGGCGAGACTTGAAATCTGTGCTTTGAGGGACACTGTGGCTGTTTACCTGACA CCCGAAAGCAAGTCAAGTTTTAAGCAGGCTTTGGAAGCCCTGCCCCAGCTTTCC AGTGGAGCAGATAAAAAGTTACTGGAAGAGCTCCTGAACAAGTTCAAGAGTAGC ATGCACTTGCAGCTCACCTGTTTCCAAGCAGCTTCTTCAACCATGATGAAAACA TAA		QLSINIMQVFIYCLEQLSTKPDA DIDTTHLSVDVSSPDLFGSIHED FSLTSEQRLLIVLSNCCYLERHT FLNIAEHFEKHNFQGIEKITQVS MASLKELDQRLFENYIELKADPI VGSLEPGIYAGYFDWKDCLPPTG VRNYLKEALVNIIAVHAEVFTIS KELVPRVLSKVIEAVSEELSRLM QCVSSFSKNGALQARLEICALRD TVAVYLTPESKSSFKQALEALPQ LSSGADKKLLEELLNKFKSSMHL QLTCFQAASSTMMKT*
Human hGIT1_v4	11	prey24328	655	AACCACTGTTTGTGAATCCTGGGATGTCATGTCTAATTAGACNTAATGGATTTA AGTATNTCTTTAATGAAATCTCTAGCTTAACTCNCCAGGATTATATTCNTTGTC CTCCTGCCCTTCAAATGATNTTACTTTATTNTTATTTGGGTAGCATTAAAAAG AAATGAANGACTATGATTCTGCCTCATTCTCAGATGGATATAGTGAAAAATACA GTGCTNATTATGAAGTTAATGTGAATTACCATGTAATTACCACTGNCTGCNCNG TAATGATTATTTAGTTACCACTGAGCATTNTCTGCCAAATAACACACATTATTT CATAGNAAGCATAGAANTNNNTCAAGTCATCCCGGAACTCNGGGAGAGAGTATA TTCNTGATCTCTTTNGTTGAGTGTAGGCGNTGCTAATGNTAACATCGNAATAAT CANGCTTGGAGCAAACNGACAG	1393	NHCL*ILGCHV*LDXMDLSXSLM KSLA*LXRIIFXVLLPFK*XYFI XILGSIKKK*XTMILPHSQMDIV KNTVLIMKLM*ITM*LPLXAX** LFSYH*AXSAK*HTLFHXKHRXX SSHPGTXGESIFXISXVECRRC* X*HRNNXAWSKXT
Human hGIT1_v4	11	prey2097	656	GAGTTGTCAACAAGTCAAAACGACAATGCACACCTTCAGTGCTCTCTGCAAACA ACAATGAACAAGCTGAATGAGCTAGAGAAAATATGTGAAATACTGCAGGCTGAA AAGTATGAACTCGTAACTGAGCTGAATGATTCAAGGTCAGAATGTATCACAGCA	1394	ELSTSQNDNAHLQCSLQTTMNKL NELEKICEILQAEKYELVTELND SRSECITA
Human hGIT1_v4	11	prey2097	657	AAAAGAGACATCAAATGAGAATTTGAGATTACTTCATGTGATAGAGGACCGTGA CAGAAAAGTTGAAAGTTTGCTAAATGAAATGAAAGAATTAGACTCAAAACTCCA TTTACAGGAGGTACAACTAATGACCAAAATTGAAGCATGCATAGAATTGGAAAA AATAGTTGGGGAACTTAAGAAAGAAAACTCAGATTTAAGTGAAAAATTGGAATA TTTTCTTGTGATCACCAGGAGTTACTCCAGAGAGTAGAAACTTCTGAAGGCCT	1395	KETSNENLRLLHVIEDRDRKVES LLNEMKELDSKLHLQEVQLMTKI EACIELEKIVGELKKENSDLSEK LEYFSCDHQELLQRVETSEGLNS DLEMHADKSSREDIGDNVAKVND

				CAATTCTGATTTAGAAATGCATGCAGATAAATCATCACGTGAAGATATTGGAGA TAATGTGGCCAAGGTGAATGACAGCTGGAAGGAGAGATTTCTTGATGTGGAAAA TGAGCTGAGTAGGATCAGATCGGAGAAAGCTAGCATTGAGCATGAAGCCCTCTA CCTGGAGGCTGACTTAGAGGTAGTTCAAACAGAGAAGCTATGTTTAGAAAAAGA CAATGAAAATAAGCAGAAGGTTATTGTCTGCCTTGAAGAAGAACTCTCAGTGGT CACAAGTGAGAGAAACCAGCTTCGTGGAGAATTAGATACTATGTCAAAAAAAAC CACGGCACTGGATCAGTTGTCTGAAAAAATGAAGGAGAAAACACAAGAGCTTGA GTCTCATCAAAGTGAGTGTCTCCATTGCATTCAGGTGGCAGAGGCAGAGGTGAA GGAAAAGACGGAACTCCTTCAGACTTTGTCCTCTGATGTGAGTGAGCTGTTAAA AGACAAAACTCATCTCCAGGAAAAGCTGCAGAGTTTGGAAAAGGACTCACAGGC ACTGTCTTTGACAAAATGTGAGCTGGAAAACCAAATTGCACAACTGAATAAAGA GAAAGAATTGCTTGTCAAGGAATCTGAAAGCCTGCAGGCCAGACTGAGTGAATC AGATTATGAAAAGCTGAATGTCTCCAAGGCCTTGGAGGCCGCACTGGTGGAGAA AGGTGAGTTCGCATTGAGGCTGAGCTCAACACAG		SWKERFLDVENELSRIRSEKASI EHEALYLEADLEVVQTEKLCLEK DNENKQKVIVCLEEELSVVTSER NQLRGELDTMSKKTTALDQLSEK MKEKTQELESHQSECLHCIQVAE AEVKEKTELLQTLSSDVSELLKD KTHLQEKLQSLEKDSQALSLTKC ELENQIAQLNKEKELLVKESESL QARLSESDYEKLNVSKALEAALV EKGEFALRLSSTQ
Human hGIT1_v4	11	prey4138	658	GTTCAAGATTAATAAGAAAATTCCCCGGGGACCACCTTCTCCTCCTGCGCCTGT CATGCATTCTCCTAGCCGAAAGATGACTGTAAAGGAACAACAAGAGTGGAAGAT TCCTCCTTGTATTTCTAACTGGAAAAATGCAAAGGGTTATACAATTCCATTAGA CAAACGTCTGGCTGCTGATGGAAGAGGACTACAGACAGTACACATAAATGAAAA TTTCGCCAAATTGGCAGAAGCCCTCTACATTGCTGATCGGAAGGCTCGTGAAGC TGTGGAAATGCGTGCCCAAGTAGAGAGAAAAATGGCTCAGAAAGAAA	1396	FKINKKIPRGPPSPPAPVMHSPS RKMTVKEQQEWKIPPCISNWKNA KGYTIPLDKRLAADGRGLQTVHI NENFAKLAEALYIADRKAREAVE MRAQVERKMAQKE
Human hGIT1_v4	11	prey2041	659	GAAGAAAAACAATGAAAGGCAGCAACAGGTGGAAGCTGTTGAGTTGGAGGCTAA AGAAGTTCTCAAAAAATTATTTCCAAAGGTGTCTGTCCCTTCTAATTTGAGTTA TGGTGAATGGTTGCATGGATTTGAAAAAAAGGCAAAAGAATGTATGGCTGGAAC TTCAGGGTCAGAGGAGGTTAAGGTTCTAGAGCACAAGTTGAAAGAAGCTGATGA AATGCACACATTGTTACAGCTAGAGTGTGAAAAATACAAATCCGTCCTTGCAGA AACAGAAGGAATTTTACAGAAGCTACAGAGAAGTGTTGAGCAAGAAGAAAATAA ATGGAAAGTTAAGGTCGATGAATCACACAAGACTATTAAACAGATGCAGTCATC ATTTACATCTTCAGAACAAGAGCTAGAGCGATTAAGAAGCGAAAATAAGGATAT TGAAAATCTGAGAAGAGAACGAGAACATTTGGAAATGGAACTAGAAAAGGCAGA GATGGAACGATCTACCTATGTTACAGAAGTCAGAGAGTTGAAGGCACAGTTAAA TGAAACACTCACAAAACTTAGAACTGAACAAAATGAAAGACAGAAGGTAGCTGG TGATTTGCATAAGGCTCAACAGTCACTGGAGCTTATCCAGTCAAAAATAGTAAA AGCTGCTGGAGACACTACTGTTATTGAAAATAGTGATGTTTCCCCAGAAACGGA GTCTTCTGAGAAGGAGACAATGTCTGTAAGTCTAAATCAGACTGTAACACAGTT ACAGCAGTTGCTTCAGGCGGTAAACCAACAGCTCACAAAGGAGAAAGAGCACTA C	1397	KKNNERQQQVEAVELEAKEVLKK LFPKVSVPSNLSYGEWLHGFEKK AKECMAGTSGSEEVKVLEHKLKE ADEMHTLLQLECEKYKSVLAETE GILQKLQRSVEQEENKWKVKVDE SHKTIKQMQSSFTSSEQELERLR SENKDIENLRREREHLEMELEKA EMERSTYVTEVRELKAQLNETLT KLRTEQNERQKVAGDLHKAQQSL ELIQSKIVKAAGDTTVIENSDVS PETESSEKETMSVSLNQTVTQLQ QLLQAVNQQLTKEKEHY
Human hGIT1_v4	11	prey12965	660	CAGAAAGTTCACTGAAAAATCGTTCTGCTTTCTGTAGTGATAAGCTAGATGAAT ACTTGGAAAATGAAGGCAAGCTGATGGAAACAAGCATGGGTTTTTCTTCTAATG CTCCCACATCTCCTGTGGTGTACCAGCTTCCCACTAAGAGTACCAGTTATGTAC	1398	QKVH*KIVLLSVVIS*MNTWKMK AS*WKQAWVFLLMLPHLLWCTSF PLRVPVMYEHLIVY*RSNLLFPL

				GAACACTTGATAGTGTACTAAAGAAGCAATCTACTATTTCCCCTTCTACCTCTT ATTCTTTGAAACCTCATTCTGTACCCCCTGTCTCTCGAAAGGCAAAGTCTCAAA ACAGACAGGCAACTTTCAGTGGCCGAACTAAATCATCTTATAAATCCATTTTAC CATACCCTGTTTCACCAAAGCAGAAATACTCTCATGTGATTCTAGGAGATAAGG TTACCAAGAATTCTTCAGGCATCATCTCAGAAAATCAGGCGAATAACTTTGTTG TGCCAACTTTGGATGAAAATATATTTCCAAAGCAGATTAGTTTGCGGCAGGCAC AGCAGCAGCAGCAACAGCAACAGGGAAGTCGCCCTCCAGGCTTGTCTAAATCTC AGGTGAAGCTAATGGACCTGGAAGACTGTGCACTTTGGGAAGGAAAACCAAGGA CATACATCACAGAAGAGCGAGCAGATGTATCCTTAACAACTCTACTTACAGCTC AAGCATCCCTCAAAACTAAACCTATCCACACAATCATAAGGAAACGAGCCCCTC CCTGCAACAATGACTTCTGTCGACTGGGTTGTGTATGTTCCAGTCTAGCTTTGG AGAAGCGCCAACCTGCTCACTGCCGCCGACCAGACTGCATGTTTGGTTGTACTT GTTTGAAAAGAAAAGTTGTACTTGTTAAAGGAGGATCCAAAACTAAGCATTTTC AGAGGAAGGCTGCTCATCGAGATCCAGTATTTTATGATACTCTGGGAGAGGAGG CAAGGGAGGAGGAAGAAGGAATCAGGGAGGAGGAGGAACAATTGAAAGAGAAAA AAAAAAAAAAAAAA		LPLIL*NLILYPLSLERQSLKTD RQLSVAELNHLINPFYHTLFHQS RNTLM*F*EIRLPRILQASSQKI RRITLLCQLWMKIYFQSRLVCGR HSSSSNSNREVALQACLNLR*S* WTWKTVHFGKENQGHTSQKSEQM YP*QLYLQLKHPSKLNLSTQS*G NEPLPATMTSVDWVVYVPV*LWR SANLLTAADQTACLVVLV*KEKL YLLKEDPKLSIFRGRLLIEIQYF MILWERRQGRRKKESGRRRNN*K RKKKKK
Human hGIT1_v4	11	prey24335	661	AGNAAGTCATTATCCCCGAAAAANGTTGCCNTTAGGNTTGTTACAAGGTGCTCA CTAGGCTGCCGTTTCATGTCGCAANATGTGANCATGCACAAATCAGCANTGCCT CCCCTGATNANACAAGAAANACATGCATNTNAATGANTGGNCTCAAGCNAGCNG NNNGAGCAGTAGTGAATCGCGNTTATGAGCANATGAATGTAGTCTTNGGCCNCA AGGNCGNACATGCNGCAGANNGTTGANNTCGNGCTCNNGCNGNNCCNGNNNCNG CNNAAAGAGNCNCAAGNGNGGNNNCNNCNGGAGAAGNTTNTTGTNCTCANNGAG GCAGNNGAGTNCCAGNGGATGTGNNNNNNAANGAAGCATGCAANANCNCCAN	1399	XKSLSPKXVAXRXVTRCSLGCRF MSQXVXMHKSAXPPLXXQEXHAX X*XXSSXXXEQ**IAXMSX*M*S XAXRXXMXQXVXXXLXXXXXXXK EXQXXXXXEKXXVLXEAXEXQXM XXXXKHAXXP
Human hGIT1_v4	11	prey19357	662	ATGGCTGCTGAGGACGAGTTACAGCTGCCGCGGCTCCCCGAGCTGTTCGAAACT GGTAGACAGTTACTGGACGAAGTAGAAGTGGCGACTGAACCCGCCGGTTCCCGG ATAGTCCAGGAGAAGGTGTTCAAGGGCTTGGACCTCCTTGAGAAGGCTGCCGAA ATGTTATCGCAGCTCGACTTGTTCAGCCGAAATGAAGATTTGGAAGAGATTGCT TCCACCGACCTGAAGTACCTTTTGGTGCCAGCGTTTCAAGGAGCCCTCACCATG AAACAAGTCAACCCCAGCAAGCGTCTAGATCATTTGCAGCGGGCTCGAGAACAC TTTATAAACTACTTAACTCAGTGCCATTGCTATCATGTGGCAGAGTTTGAGCTG CCCAAAACCATGAACAACTCTGCTGAAAATCACACTGCCAATTCCTCCATGGCT TATCCTAGTCTCGTTGCTATGGCATCTCAAAGACAGGCTAAAATACAGAGATAC AAGCAGAAGAAGGAGTTGGAGCATAGGTTGTCTGCAATGAAATCTGCTGTGGAA AGTGGTCAAGCAGATGATGAGCGTGTTCGTGAATATTATCTTCTTCACCTTCAG AGGTGGATTGATATCAGCTTAGAAGAGATTGAGAGCATTGACCAGGAAATAAAG ATCCTGAGAGAAAGAGACTCTTCAAGAGAGGCATCAACTTCTAACTCATCTCGC CAGGAGAGGCCTCCAGTGAAACCCTTCATTCTCACTCGGAACATGGCTCAAGCC AAAGTATTTGGAGCTGGTTATCCAAGTCTGCCAACTATGACGGTGAGTGACTGG TATGAGCAACATCGGAAATATGGAGCATTACCGGATCAGGGAATAGCCAAGGCA	1400	MAAEDELQLPRLPELFETGRQLL DEVEVATEPAGSRIVQEKVFKGL DLLEKAAEMLSQLDLFSRNEDLE EIASTDLKYLLVPAFQGALTMKQ VNPSKRLDHLQRAREHFINYLTQ CHCYHVAEFELPKTMNNSAENHT ANSSMAYPSLVAMASQRQAKIQR YKQKKELEHRLSAMKSAVESGQA DDERVREYYLLHLQRWIDISLEE IESIDQEIKILRERDSSREASTS NSSRQERPPVKPFILTRNMAQAK VFGAGYPSLPTMTVSDWYEQHRK YGALPDQGIAKAAPEEFRKAAQQ QEEQEEKEEEDDEQTLHRAREWD DWKDTHPRGYGNRQNMG*

				GCACCAGAGGAATTCAGAAAAGCAGCTCAGCAACAGGAAGAACAAGAAGAAAAG GAGGAAGAGGATGATGAACAAACACTCCACAGAGCCCGGGAGTGGGATGACTGG AAGGACACCCATCCTAGGGGCTATGGGAACCGACAGAACATGGGCTGA		
Human hGIT1_v4	11	prey2224	663	ATGGTGGACACTTTTCTTCAGAAGCTGGTCGCCGCCGGCAGCTACCAGAGATTC ACTGACTGCTATAAGTGCTTCTACCAGTTGCAGCCTGCGATGACACAGCGAATC TATGACAAGTTTATAGCTCAGTTGCAGACATCTATCCGGGAGGAAATCTCTGAC ATCAAAGAGGAGGGGAACCTAGAAGCTGTCTTGAATGCCTTGGATAAAATTGTG GAAGAAGGCAAAGTCCGCAAAGAGCCAGCCTGGCGCCCCAGCGGGATCCCAGAG AAGGATCTGCACAGTGTTATAGCACCCTACTTCCTGCAGCAACGGGACACCCTG CGGCGCCATGTGCAGAAACAGGAGGCCGAGAACCAGCAGCTGGCAGATGCCGTC CTGGCAGGGCGGAGGCAGGTGGAGGAGCTGCAGCTACAGGTCCAGGCCCAGCAG CAGGCCTGGCAGGCTCTACACAGAGAACAGAGGGAGCTGGTTGCTGTGCTGAGG GAGCCTGAGTGA	1401	MVDTFLQKLVAAGSYQRFTDCYK CFYQLQPAMTQRIYDKFIAQLQT SIREEISDIKEEGNLEAVLNALD KIVEEGKVRKEPAWRPSGIPEKD LHSVIAPYFLQQRDTLRRHVQKQ EAENQQLADAVLAGRRQVEELQL QVQAQQQAWQALHREQRELVAVL REPE*
Human hGIT1_v4	11	prey24345	664	GGTGTTCCATTTGTTCAAGCGATTCCAGTTGTTTTTGTCTTCTCTGCTCCATCT CTGCTTTCTGCCTTTGCCTGGATGCCGTCGAGCCCACTCTGTCTGCCTGGTCTT GAAGGTGGAGCTGAAGGGAGCCCTCTGCCAGCGTGCCCAGTTTGGGGGTCTCTT GTCCAGATTCAGTGCTATACAATAATGAGTCCTCTTTGTTGATAAATATACCTG CCTCGGGAGACAATGTTTGACTTCCATTTCTAAACGTGGGCTTGACCGTGCCCT GATATTTTTGGTTCTGGGCCTTGCCCATGAACGTTTTCAAGTCGGTCTTGGACG CTGCCTGCTGCGCCTACTGCTNTGNT	1402	GVPFVQAIPVVFVFSAPSLLSAF AWMPSSPLCLPGLEGGAEGSPLP ACPVWGSLVQIQCYTIMSPLC** IYLPRETMFDFHF*TWA*PCPDI FGSGPCP*TFSSRSWTLPAAPTA X
Human hGIT1_v4	11	hgx201	665	GGCCTCCTCTGCCACCAGGGAGCTGGACGAGCTGATGGCTTCGCTGTCGGATTT CAAGTTCATGGCCCAGGGGAAGACAGGGAGCAGC	1403	ASSATRELDELMASLSDFKFMAQ GKTGSS
Human hGIT1_v4	11	prey12737	666	CAGCACTCCCAAGCGGGAGAAGGCCGAGTGGCTGCTGCGGCAGAAGGAGCAGCT CCAGCAGTGCCAGGCGGAGGAGGAAGCAGGGCTGCTGCGGCGGCAGCGCCAGTA CTTTGAGCTGCAGTGTCGCCAGTACAAGCGCAAGATGTTGCTGGCTCGGCACAG CCTGGACCAGGACCTGCTGCGGGAGGACCTGAACAAGAAGCAGACCCAGAAGGA CTTGGAGTGTGCACTGCTGCTTCGGCAGCACGAGGCCACGCGGGAGCTGGAGCT GCGGCAGCTCCAGGCCGTGCAGCGCACGCGGGCTGAGCTCACCCGCCTGCAGCA CCAGACGGAGCTGGGCAACCAGCTGGAGTACAACAAGCGGCGTGAGCAAGAGTT GCGGCAGAAGCATGCGGCCCAGGTTCGCCAGCAGCCCAAGAGCCTCAAATCTAA GGAGCTGCAGATCAAGAAGCAGTTCCAGGAGACGTGTAAGATCCAGACTCGGCA GTACAAGGCTCTGCGAGCACACTTGCTGGAGACCACGCCCAAAGCTCAGCACAA GAGCCTCCTTAAGCGGCTCAAGGAAGAGCAGACCCGCAAGCTGGCGATCTTGGC GGAGCAGTATGACCAGTCCATCTCAGAGATGCTCAGCTCACAGGCGCTGCGGCT TGATGAGACCCAGGAGGCAGAGTTCCAGGCCCTTCGGCAGCAGCTTCAACAGGA GCTGGAGCTGCTCAACGCTTACCAGAGCAAGATCAAGATCCGCA	1404	STPKREKAEWLLRQKEQLQQCQA EEEAGLLRRQRQYFELQCRQYKR KMLLARHSLDQDLLREDLNKKQT QKDLECALLLRQHEATRELELRQ LQAVQRTRAELTRLQHQTELGNQ LEYNKRREQELRQKHAAQVRQQP KSLKSKELQIKKQFQETCKIQTR QYKALRAHLLETTPKAQHKSLLK RLKEEQTRKLAILAEQYDQSISE MLSSQALRLDETQEAEFQALRQQ LQQELELLNAYQSKIKIR
Human hGIT1_v4	11	prey4028	667	CATCGTGGAGTACAGCCCTCCGTCCGCCCCCAGGAGGCCTCCTGTGTACTACAA GTTCATCGAGAAGTCGGCCGAGGAACTGGACAACGAGGTGGAGTATGACATGGA	1405	IVEYSPPSAPRRPPVYYKFIEKS AEELDNEVEYDMDEEDYAWLEIV

				CGAGGAGGACTATGCCTGGCTGGAGATCGTCAATGAGAAGCGCAAGGGCGACTG CGTCCCCGCCGTGTCGCAGAGCATGTTTGAGTTCCTGATGGACCGCTTCGAGAA GGAGTCGCACTGCGAGAACCAGAAGCAGGGCGAGCAGCAGTCTCTGATCGACGA GGACGCCGTGTGCTGCATCTGCATGGACGGGGAGTGTCAGAACAGCAACGTGAT CCTCTTCTGCGACATGTGCAACCTGGCCGTGCACCAGGAGTGCTACGGGGTGCC CTACATCCCCGAGGGCCAGTGGCTCTGCCGCCACTGCCTGCAGTCGCGGGCCCG GCCCGCCGACTGTGTGCTGTGCCCCAACAAGGGTGGTGCCTTCAAAAAGACAGA TGACGACCGCTGGGGTCACGTGGTGTGTGCCCTGTGGATCCCAGAGGTCGGCTT TGCCAACACGGTGTTCATCGAGCCCATCGATGGGGTGAGGAACATCCCTCCAGC CCGGTGGAAACTGACATGCTACCTCTGTAAGCAGAAGGGCGTGGGTGCCTGCAT CCAGTGCCACAAAGCAAACTGCTACACAGCATTCCATGTGACGTGTGCCCAGAA GGCTGGCCTGTACATGAAAATGGAGCCCGTGAAGGAACTGACTGGCGGTGGCAC CACCTTCTCCGTCAGAAAGACCGCTTACTGTCATGTCCACACGCCTCCAGGCTG CACCCGGAGGCCTCTGAATATTTACGGGGATGTCGAAATGAAAAATGGCGTCTG TCGAAAAGAGAGCTCGGTTAAAACGGTCAGGTCCACATCCAAGGTCAGGAAGAA GGCAAAAAAGGCTAAGAAAGCTCTGGCTGAGCCCTGCGCGGTCCTGCCGACCGT GTGCGCTCCTTATATTCCCCCGCAGAGGTTAAATAGGATTGCGAATCAGGTGGC CATTCAGCGGAAGAAGCAGTTTGTGGAGCGAGCCCACAGCTACTGGCTGCTCAA GCGGCTGTCCAGGAACGGGGCCCCC		NEKRKGDCVPAVSQSMFEFLMDR FEKESHCENQKQGEQQSLIDEDA VCCICMDGECQNSNVILFCDMCN LAVHQECYGVPYIPEGQWLCRHC LQSRARPADCVLCPNKGGAFKKT DDDRWGHVVCALWIPEVGFANTV FIEPIDGVRNIPPARWKLTCYLC KQKGVGACIQCHKANCYTAFHVT CAQKAGLYMKMEPVKELTGGGTT FSVRKTAYCDVHTPPGCTRRPLN IYGDVEMKNGVCRKESSVKTVRS TSKVRKKAKKAKKALAEPCAVLP TVCAPYIPPQRLNRIANQVAIQR KKQFVERAHSYWLLKRLSRNGAP
Human hGIT1_v4	11	prey19375	668	ATGGCGGCCGGCAAGAGCGGCGGTAGCGCAGGGGAGATTACTTTTCTGGAAGCT TTGGCTAGATCAGAGTCTAAGAGAGATGGAGGTTTTAAAAATAATTGGAGCTTT GATCATGAAGAAGAAAGTGAAGGAGATACAGATAAAGATGGGACAAATCTGCTC AGTGTGGATGAAGATGAGGATTCTGAAACCTCAAAAGGAAAAAAGTTAAATCGT CGATCTGAAATTGTTGCTAATAGCTCTGGTGAATTCATCTTGAAGACATATGTA AGACGAAACAAGTCTGAAAGTTTTAAAACTTTGAAAGGCAACCCAATTGGACTT AACATGTTGAGCAACAATAAGAAATTGAGTGAAAATATGCAAAATACGTCATTA TGTTCTGGAACTGTAGTTCATGGTAGACGTTTTCATCATGCTCATGCACAGATA CCAGTAGTAAAAACAGCAGCCCAAAGCAGTCTGGACCGAAAAGAAAGGAAAGAA TACCCACCTCATGTCCAAAAAGTTGAAATTAATCCTGTAAGGTTAAGTCGGCTC CAAGGTGTTGAACGTATAATGAAGAAAACAGAAGAGTCCGAATCACAAGTGGAG CCTGAAATTAAGAGGAAAGTACAACAGAAACGGCACTGTAGTACCTATCAGCCT ACTCCTCCTCTATCTCCTGCTTCAAAAAAATGTTTAACCCATTTAGAGGATTTG CAAAGAAATTGCAGACAAGCTATTACTTTGAATGAGTCTACTGGACCATTATTA AGAACGTCAATTCATCAGAATTCTGGAGGACAGAAGTCACAAAACACAGGATTA ACAACCAAGAAGTTTTATGGCAACAATGTGGAAAAGGTTCCAATTGATATTATT GTGAATTGTGATGACAGTAAACACACTTATTTACAGACTAATGGAAAAGTCATT TTACCTGGGGCAAAAATACCCAAAATCACAAACTTGAAAGAAAGGAAAACAAGT TTGTCAGACCTAAATGATCCAATCATTTTGTCCAGTGATGATGATGATGACAAC GACAGAACTAACAGAAGAGAAAGCATATCTCCTCAGCCTGCTGATTCAGCATGT	1406	MAAGKSGGSAGEITFLEALARSE SKRDGGFKNNWSFDHEEESEGDT DKDGTNLLSVDEDEDSETSKGKK LNRRSEIVANSSGEFILKTYVRR NKSESFKTLKGNPIGLNMLSNNK KLSENMQNTSLCSGTVVHGRRFH HAHAQIPVVKTAAQSSLDRKERK EYPPHVQKVEINPVRLSRLQGVE RIMKKTEESESQVEPEIKRKVQQ KRHCSTYQPTPPLSPASKKCLTH LEDLQRNCRQAITLNESTGPLLR TSIHQNSGGQKSQNTGLTTKKFY GNNVEKVPIDIIVNCDDSKHTYL QTNGKVILPGAKIPKITNLKERK TSLSDLNDPIILSSDDDDDNDRT NRRESISPQPADSACSSPAPSTG KVEAALNENTCRAERELRSIPED SELNTVTLPRKARMKDQFGNSII NTPLKRRKVFSQEPPDALALSCQ SSFDSVILNCRSIRVGTLFRLLI

				TCTTCCCCTGCACCATCCACTGGAAAAGTAGAAGCAGCACTAAATGAAAATACT TGCAGAGCAGAGCGTGAACTACGAAGCATTCCAGAAGACTCAGAGTTAAATACA GTTACATTGCCAAGAAAAGCAAGAATGAAAGACCAGTTTGGCAATTCTATTATC AACACACCTCTGAAACGTCGTAAAGTGTTTTCTCAAGAACCTCCAGATGCTTTA GCTTTAAGCTGCCAAAGTTCCTTTGACAGTGTCATTTTAAACTGTCGAAGTATA CGAGTAGGAACACTCTTCCGGCTGTTAATAGAGCCTGTAATTTTTTGTTTAGAT TTTATCAAGATACAGCTAGACGAACCAGACCATGATCCTGTAGAGATTATATTA AATACCTCTGATCTAACTAAATGTGAATGGTGTAATGTCCGAAAATTACCTGTA GTGTTTCTTCAAGCAATTCCAGCAGTTTATCAAAAGCTGAGCATCCAACTGCAA ATGAATAAGGAGGATAAAGTTTGGAATGATTGTAAAGGAGTAAATAAATTAACA AATTTAGAAGAACAATATATAATTTTAATTTTTCAAAATGGCCTTGATCCTCCG GCAAATATGGTATTTGAAAGTATCATTAATGAAATTGGTATAAAGAATAACATC TCCAATTTTTTTGCGAAAATTCCCTTTGAAGAAGCTAATGGCAGACTTGTTGCC TGTACAAGAACCTATGAAGAGAGCATCAAAGGAAGTTGTGGGCAAAAGGAAAAC AAAATTAAAACTGTATCATTTGAATCTAAAATACAACTTAGAAGCAAACAAGAA TTTCAGTTTTTTGATGAAGAAGAAGAAACTGGAGAAAACCACACCATCTTCATT GGCCCAGTAGAAAAGTTGATAGTATATCCACCACCTCCAGCTAAGGGAGGCATC TCTGTTACCAATGAGGACCTGCACTGTCTAAATGAAGGAGAATTTTTAAATGAT GTTATTATAGACTTTTATTTGAAATACTTGGTGCTTGAAAAACTGAAGAAGGAA GACGCTGACCGAATTCATATATTCAGTTCTTTTTTCTATAAACGCCTTAATCAG AGAGAGAGGAGAAATCATGAAACAACTAATCTGTCAATACAGCAAAAACGGCAT GGGAGAGTAAAAACATGGACCCGGCACGTAGATATTTTTGAGAAGGATTTTATT TTTGTACCCCTTAATGAAGCTGCACACTGGTTTTTGGCTGTTGTTTGTTTCCCC GGTTTGGAAAAACCAAAGTATGAACCTAATCCTCATTACCATGAAAATGCTGTC ATACAGAAATGTTCAACTGTAGAGGACAGTTGTATTTCTTCTTCAGCCAGTGAA ATGGAGAGTTGTTCACAAAACTCTTCTGCCAAGCCTGTAATTAAGAAGATGCTA AACAAAAAACATTGCATAGCTGTAATTGATTCCAATCCTGGGCAGGAAGAAAGT GACCCTCGTTATAAGAGAAACATATGCAGTGTAAAATACAGTGTGAAAAAAATA AATCATACTGCGAGTGAAAATGAAGAATTCAATAAAGGAGAATCTACATCCCAG AAAGTTGCTGATAGGACTAAAAGTGAGAATGGCCTACAGAATGAAAGTTTAAGT TCCACACATCATACAGATGGCTTAAGCAAAATCAGACTAAACTATAGCGATGAA TCACCTGAAGCTGGTAAAATGCTTGAAGATGAACTCGTCGACTTCTCAGAAGAT CAGGATAACCAGGATGATAGCAGTGACGATGGATTCCTCGCTGATGACAACTGC AGTTCAGAAATAGGACAGTGGCATTTAAAGCCTACTATCTGTAAACAACCTTGT ATCCTACTTATGGACTCACTCCGAGGCCCTTCTCGGTCAAATGTTGTCAAAATT TTAAGAGAGTATTTAGAAGTGGAATGGGAAGTTAAAAAAGGAAGCAAAAGAAGT TTTTCCAAAGATGTTATGAAGGGCTCTAATCCAAAAGTACCACAGCAAAACAAC TTCAGTGACTGTGGTGTATATGTATTGCAGTATGTAGAGAGCTTTTTTGAGAAT CCAATTCTCAGTTTTGAACTACCTATGAATTTGGCAAACTGGTTTCCTCCACCA		EPVIFCLDFIKIQLDEPDHDPVE IILNTSDLTKCEWCNVRKLPVVF LQAIPAVYQKLSIQLQMNKEDKV WNDCKGVNKLTNLEEQYIILIFQ NGLDPPANMVFESIINEIGIKNN ISNFFAKIPFEEANGRLVACTRT YEESIKGSCGQKENKIKTVSFES KIQLRSKQEFQFFDEEEETGENH TIFIGPVEKLIVYPPPPAKGGIS VTNEDLHCLNEGEFLNDVIIDFY LKYLVLEKLKKEDADRIHIFSSF FYKRLNQRERRNHETTNLSIQQK RHGRVKTWTRHVDIFEKDFIFVP LNEAAHWFLAVVCFPGLEKPKYE PNPHYHENAVIQKCSTVEDSCIS SSASEMESCSQNSSAKPVIKKML NKKHCIAVIDSNPGQEESDPRYK RNICSVKYSVKKINHTASENEEF NKGESTSQKVADRTKSENGLQNE SLSSTHHTDGLSKIRLNYSDESP EAGKMLEDELVDFSEDQDNQDDS SDDGFLADDNCSSEIGQWHLKPT ICKQPCILLMDSLRGPSRSNVVK ILREYLEVEWEVKKGSKRSFSKD VMKGSNPKVPQQNNFSDCGVYVL QYVESFFENPILSFELPMNLANW FPPPRMRTKREEIRNIILKLQED QSKEKRKHKDTYSTEAPLGEGTE QCVNSISD*

				AGAATGAGAACAAAAAGAGAAGAAATCCGAAACATAATTCTGAAGCTACAGGAA GATCAGAGCAAAGAGAAAAGAAAGCATAAGGACACTTACTCAACAGAAGCACCT TTAGGCGAAGGAACAGAACAATGTGTCAATAGTATCTCAGATTGA		
Human hGIT1_v4	11	hgx16	669	ATGGCGGACCTGGAGGCGGTGCTGGCCGACGTGAGCTACCTGATGGCCATGGAG AAGAGCAAGGCCACGCCGGCCGCGCGCGCCAGCAAGAAGATACTGCTGCCCGAG CCCAGCATCCGCAGTGTCATGCAGAAGTACCTGGAGGACCGGGGCGAGGTGACC TTTGAGAAGATCTTTTCCCAGAAGCTGGGGTACCTGCTCTTCCGAGACTTCTGC CTGAACCACCTGGAGGAGGCCAGGCCCTTGGTGGAATTCTATGAGGAGATCAAG AAGTACGAGAAGCTGGAGACGGAGGAGGAGCGTGTGGCCCGCAGCCGGGAGATC TTCGACTCATACATCATGAAGGAGCTGCTGGCCTGCTCGCATCCCTTCTCGAAG AGTGCCACTGAGCATGTCCAAGGCCACCTGGGGAAGAAGCAGGTGCCTCCGGAT CTCTTCCAGCCATACATCGAAGAGATTTGTCAAAACCTCCGAG	1407	MADLEAVLADVSYLMAMEKSKAT PAARASKKILLPEPSIRSVMQKY LEDRGEVTFEKIFSQKLGYLLFR DFCLNHLEEARPLVEFYEEIKKY EKLETEEERVARSREIFDSYIMK ELLACSHPFSKSATEHVQGHLGK KQVPPDLFQPYIEEICQNLR
Human hGIT1_v4	11	prey24240	670	TTGAGGAGAGGGTATTAGGAGGNACAGNACCTGCACGTCGGTGGNCTGGACAGG CTGCAGTCANCACGTCTGTTGGGCTGGGGAGGAGGACTGGCCCATGGAAAATGA TCCTGACTCGCAGGGGCCCATCCANCGAAGATCAGCCNGGCCCCCGAGGGCCNA GGAGAAGCATAGAGCAGCCCTTATTGAAGAGAGGAGTTGCAGGGAAGAGTTGGG CCATCAACACCCCANGCACTCCAGGCCCCGGAAGACANCAGCNAGTCCAGANAA ACCACNGACTACNAAAGCCACNGGTNGGATGAATTCTCAC	1408	LRRGY*EXQXLHVGGLDRLQSXR LLGWGGGLAHGK*S*LAGAHPXK ISXAPEGXGEA*SSPY*REELQG RVGPSTPXALQAPEDXSXSRXTT DYXSHXXDEFS
Human hGIT1_v4	11	prey2342	671	CTCCCAAAGGCTTCTGCCACCTCAGCCACTCTGGAGCTGGATAGACTGATGGCC TCACTCCCTGACTTCCGCGTTCAAAACCATCTTCCA	1409	LPKASATSATLELDRLMASLPDF RVQNHLP
Human hGIT1_v4	11	prey24242	672	AACACAAANTTGTTNTTANCAANCAGANTTTTATGTCCANNCAAANAGTNTTCT TCCCGCCTTNCTGGGCNAGTTCNCTTGCANAGAGNAGTAGAAANNGTAACNNGG NTNTNCATATCGTGCATTCATATGNGATGTCCNGNCNTCATACNNTGTCCANGT TCTTTAGANATAAATGAGAGTGANTCGCAAGGAGGGNCACGTAGATGAGAAAGN TCCGTATGNNAGAGATCANGATCNTCGCGCATCATCCGTTTCGTCTNCTNCNGG TNCAGGNTCNGCGAGANGCCCTCAANCCGGANCATCNCGGCTCTGACTTAGCAG CNNNCANCCGCCGCNCTCN	1410	NTXLXLXXRXLCPXKXXSSRLXG XVXLXRXVEXVTXXXISCIHMXC PXXIXCPXSLXINESXSQGGXRR *EXSVXXRSXSSRIIRFVXXXXR XXEXPSXRXIXALT*QXXXAAL
Human hGIT1_v4	11	prey454	673	XXX NOT AVAILABLE XXX	1411	XXX NOT AVAILABLE XXX
Human hGIT1_v4	11	prey1493	674	CACGGGCCCTGAGAGCTACGTGGCCCAGATGATCAAGAACAAGAACCTGGACTG GTTCCCCCGGATGCGGGCCATGTCCCTTGTCAGCAATGAGGGCGAGGGGGAGCA GAATGAGATTCGGATTCTCCAGGACAAGCTCAACTCCACCATGAAGCTGGTGTC CCACCTCACTGCCCAGCTCAACGAGCTCAAGGAGCAGATGACGGAGCAGCGGAA ACGCAGGCAACGCCTAGGCTTTGTGGATGTCCAGAACTGCATTAGCCGCTGA	1412	TGPESYVAQMIKNKNLDWFPRMR AMSLVSNEGEGEQNEIRILQDKL NSTMKLVSHLTAQLNELKEQMTE QRKRRQRLGFVDVQNCISR*
Human hGIT1_v4	11	prey2337	675	CTCCCAAAGGCTTCTGCCACCTCAGCCACTCTGGAGCTGGATAGACTGATGGCC TCACTCTCTGACTTCCGCGTTCAAAACCATCTTCCAGCCTCTGGGCCAACTCAG CCACCGGTGGTGAGCTCCACAAATGAGGGCTCCCCATCCCCACCAGAGCCGACT GGCAAGGGCAGCCTAGACACCATGCTGGGGCTGCTGCAGTCCGACCTCAGCCGC	1413	LPKASATSATLELDRLMASLSDF RVQNHLPASGPTQPPVVSSTNEG SPSPPEPTGKGSLDTMLGLLQSD LSRRGVPTQAKGLCGSCNKPIAG

				CGGGGTGTTCCCACCCAGGCCAAAGGCCTCTGTGGCTCCTGCAATAAACCTATT GCTGGGCAAGTGGTGACGGCTCTGGGCCGCGCCTGGCACCCCGAGCACTTCGTT TGCGGAGGCTGTTCCACCGCCCTGGGAGGCAGCAGCTTCTTCGAGAAGGATGGA GCCCCCTTCTGCCCCGAGTGCTACTTTGAGCGCTTCTCGCCAAGATGTGGCTTC TGCAACCAGCCCATCCGACACAAGATGGTGACCGCCTTGGGCACTCACTGGCAC CCAGAGCATTTCTGCTGCGTCAGTTGCGGGGAGCCCTTCGGAGATGAGGGTTTC CACGAGCGCGAGGGCCGCCCCTACTGCCGCCGGGACTTCCTGCAGCTGTTCGCC CCGCGCTGCCAGGGCTGCCAGGGCCCCATCCTGGATAACTACATCTCGGCGCTC AGCGCGCTCTGGCACCCGGACTGTTTCGTCTGCAGGGAATGCTTCGCGCCCTTC TCGGGAGGCAGCTTTTTCGAGCACGAGGGCCGCCCGTTGTGCGAGAACCACTTC CACGCACGACGCGGCTCGCTGTGCGCCACGTGTGGCCTCCCTGTGACCGGCCGC TGCGTGTCGGCCCTGGGTCGCCGCTTCCACCCGGACCACTTCACATGCACCTTC TGCCTGCGCCCGCTCACCAAGGGGTCCTTCCAGGAGCGCGCCGGCAAGCCCTAC TGCCAGCCCTGCTTCCTGAAGCTCTTCGGCTGA		QVVTALGRAWHPEHFVCGGCSTA LGGSSFFEKDGAPFCPECYFERF SPRCGFCNQPIRHKMVTALGTHW HPEHFCCVSCGEPFGDEGFHERE GRPYCRRDFLQLFAPRCQGCQGP ILDNYISALSALWHPDCFVCREC FAPFSGGSFFEHEGRPLCENHFH ARRGSLCATCGLPVTGRCVSALG RRFHPDHFTCTFCLRPLTKGSFQ ERAGKPYCQPCFLKLFG*
Human hGIT1_v4	11	prey24253	676	NTNGANACCTNNCTACCCTNTNGTATNNAACCATTTGGGNNATCACTNTTNCTT CTCCNAGGATGATGGGGCCAGTCCNGCNTGTGTCCCTCCATGCCTNNNGTAAAN AACTAACGNGGNANCNATGCGAGCTNANAGCTGNNNTNANCTNNCTTNNNCATT CCATGNNNNGGAAGANTATNACCACNNTTTTTANANCTATCATAAANCCACNNA TTTTGCCTNATGCTCTTTTGAGNNGNCATTTTTTGGATNGGGACTNTTTANTTT TTATTTGAGGGGACGNAAGACNATGNTNATGAAGCGCTAGGCTCAACGNGNCAG AANGCTAANCCTNNCNATTNCTANGGCTANTAAAATNATCGGCCTCTATCNATG CGTGNNTANNANACTCNNGAACCCCGAGNTCTTNCCGNGGNCNATGANNGCANN GNCACAGNACAGCTGNCCNAAAGATGANCGAAGNNTGACTTGANNCGTCACACA TNGTACNACNGACTNANGT	1414	XXTXLPXXXXPFGXSLXLLXG*W GQSXXCPSMPXVXN*RGXXASXX LXXXXXXIPXXGRXXPXFLXLS* XHXFCLMLF*XXIFWXGTXXFLF EGTXDXXXEALGSTXQXAXPXXX XGX*NXRPLSMRXXXTXEPRXLX XXXXXXXTXQLXXR*XKXDLXRH TXYXXLX
Human hGIT1_v4	11	prey24254	677	ACNCCCNGTNCAGGCACAGGTATGTNGGATNNANTGNCCCAGAATCCCTGCCCA CCCCGCGTGCCCTGTCNTTNCTGCTATNCNAGGGGAGATTAGNNTACCGGACTN TGTGACCTACATCNNNCAGCTTNACANAACATTATTGGCCTTCNNTGCAACNNN NNAGATGAANTAATGTGATGGCTTCCCATGCTAGGATNGCAAGCTTATGGAGAA CNGAAAAGACGACCAAGTCATGNNAATNCCCATGGGGAGNCCCCCCTANGTTTC NAGANCCAGTTNTNCANCTATGNNNGGNNTCTNGCACCTTAACCTGNATNNANN NGGNNAGACNGNAGGCCTCANTGNATGANNTGNGGNNTNAAAAACATCNNTCAG CCTGNGGGCNNANNCNGCCATNGGGNNNNAGCTGCACNAATGANGNTTCCCCNT CNCCCNCNGANNCGANNGGANAGGNNACCCTAACNNCNNTGNTNGGGNTGCNNC AGCCNAATCTC	1415	TPXXGTGMXDXXXQNPCPPRVPC XXCYXRGD*XTGLCDLHXXAXXN IIGLXCNXXDEXM*WLPMLGXQA YGEXKRRPSHXNXHGEXPLXFXX QXXXYXXXLAP*PXXXXXDXRPX XMXXGXKNIXQPXGXXXHXXXAA XMXXPXXPXXRXXRXP*XXXXGC XSXI
Human hGIT1_v4	11	prey2193	678	GGCTGAGGTGGCTGAGCGGCTGGACCTGGCTGAGGCACTGGTCGACTTCATCTA CCAGTACTGGAAGCTGAAGAGGAAAGCCAATGCCAACCAGCCGCTGCTGACCCC CAAGACCGACGAGGTGGACAACCTGGCCCAGCAGGAGCAGGACGTCCTCTACCG CCGCCTGAAGCTCTTCACCCATCTGCGGCAGGACCTAGAGAGGGTTAGAAATCT GTGCTACATGGTGACAAGGCGCGAGAGAACGAAACACGCCATCTGCAAACTCCA	1416	AEVAERLDLAEALVDFIYQYWKL KRKANANQPLLTPKTDEVDNLAQ QEQDVLYRRLKLFTHLRQDLERV RNLCYMVTRRERTKHAICKLQEQ IFHLQMKLIEQDLCRAGLSTSFP

				GGAGCAGATATTCCACCTGCAGATGAAACTTATTGAACAGGATCTGTGTCGAGC AGGCCTGTCCACCTCATTCCCCATCGATGGCACCTTCTTCAACAGCTGGCTGGC ACAGTCGGTGCAGATCACAGCAGAGAACATGGCCATGAGCGAGTGGCCACTGAA CAATGGGCACCGCGAGGACCCTGCTCCAGGGCTGCTGTCAGAGGAACTGCTGCA GGACGAGGAGACACTGCTCAGCTTCATGCGGGACCCCTCGCTGCGACCTGGTGA CCCTGCTAGGAAGGCCCGAGGCCGCACCCGCCTGCCTGCCAAGAAGAAACCACC ACCACCACCACCGCAGGACGGGCCTGGTTCACGGACGACTCCAGACAAAGCCCC CAAGAAGACCTGGGGCCAGGATGCAGGCAGTGGCAAGGGGGGTCAAGGGCCACC TACCAGGAAGCCACCACGTCGGACATCTTCTCACTTGCCGTCCAGCCCTGCAGC CGGGGACTGTCCCATCCTAGCCACCCCTGAAAGCCCCCCGCCACTGGCCCCTGA GACCCCGGACGAGGCAGCCTCAGTAGCTGCTGACTCAGATGTCCAAGTGCCTGG CCCTGCAGCAAGCCCTAAGCCTTTGGGCCGGCTCCGGCCACCCCGCGAGAGCAA GGTAACCCGGAGATTGCCGGGTGCCAGGCCTGATGCTGGGATGGGACCCCCTTC AGCTGTGGCTGAGAGGCCCAAGGTCAGCCTGCATTTTGACACTGAGACTGATGG CTACTTCTCTGATGGGGAGATGAGCGACTCAGATGTAGAGGCCGAGGACGGTGG GGTGCAGCGGGGTCCCCGGGAGGCAGGGGCAGAGGAGGTGGTCCGCATGGGCGT ACTGGCCTCCTAA		IDGTFFNSWLAQSVQITAENMAM SEWPLNNGHREDPAPGLLSEELL QDEETLLSFMRDPSLRPGDPARK ARGRTRLPAKKKPPPPPPQDGPG SRTTPDKAPKKTWGQDAGSGKGG QGPPTRKPPRRTSSHLPSSPAAG DCPILATPESPPPLAPETPDEAA SVAADSDVQVPGPAASPKPLGRL RPPRESKVTRRLPGARPDAGMGP PSAVAERPKVSLHFDTETDGYFS DGEMSDSDVEAEDGGVQRGPREA GAEEVVRMGVLAS*
Human hGIT1_v4	11	prey4142	679	ATGGAAGATTTAACTAATGTATCAAGTCTACTGAATATGGAAAGGGCACGAGAC AAAGCTAATGAAGAAGGTCTGGCATTACTACAGGAAGAAATAGATAAAATGGTA GAGACCACAGAGTTAATGACTGGGAATATTCAGAGCCTAAAGAACAAAATTCAG ATTCTGGCAAGTGAGGTGGAAGAAGAAGAGGAGAGAGTAAAACAGATGCATCAA ATAAATAGTAGTGGAGTACTCTCTCTTCCGGAACTTTCTCAGAAAACTCTCAAA GCACCCACACTTCAGAAAGAAATTTTGGCGCTAATTCCAAAC	1417	MEDLTNVSSLLNMERARDKANEE GLALLQEEIDKMVETTELMTGNI QSLKNKIQILASEVEEEEERVKQ MHQINSSGVLSLPELSQKTLKAP TLQKEILALIPN
Human hGIT1_v4	11	prey12834	680	ATGGATTTGGAATCTTTTTCACAGAAGATGGAGACCTCTCTAAGAGAGCCACTT GCGAAGGGTAAAAACTCTAATTTTTTAAATAGTCACAGTCAGTTGACCGGTCAG ACCCTTGTAGATCTTGAGCCTAAATCTAAAGTCTCTTCACCCATAGAAAAAGTC TCACCTTCCTGTCTAACAAGGATTATTGAAACCAATGGACACAAAATAGAGGAA GAGGATCGAGCCCTCTTACTGCGAATCCTGGAAAGCATTGAAGACTTTGCTCAA GAACTAGTTGAATGCAAATCAAGCAGAGGGAGCCTATCACAAGAAAAGGAAATG ATGCAAATTCTACAGGAAACCTTGACAACTTCCTCCCAGGCCAATTTATCAGTC TGTAGAAGTCCTGTTGGTGATAAAGCCAAAGATACTACTTCAGCAGTTTTGATT CAGCAGACTCCAGAGGTGATCAAGATTCAAAATAAACCAGAAAAGAAACCTGGA ACACCACTCCCACCTCCAGCCACCTCTCCAAGTAGTCCCCGACCTCTCTCCCCG GTTCCCCATGTGAATAATGTTGTGAATGCGCCATTGTCCATAAACATTCCACGG TTCTACTTTCCTGAAGGACTCCCAGATACCTGTAGTAATCATGAACAAACTCTA AGCAGAATTGAAACTGCTTTCATGGATATTGAAGAACAGAAAGCAGACATTTAT GAAATGGGGAAAATTGCAAAGGTCTGTGGCTGTCCTCTCTATTGGAAAGCCCCC ATGTTCAGGGCTGCAGGGGGAGAGAAGACAGGATTTGTGACAGCACAGTCATTC ATTGCCATGTGGAGAAAGTTGCTGAATAACCATCATGATGATGCCTCTAAATTC	1418	MDLESFSQKMETSLREPLAKGKN SNFLNSHSQLTGQTLVDLEPKSK VSSPIEKVSPSCLTRIIETNGHK IEEEDRALLLRILESIEDFAQEL VECKSSRGSLSQEKEMMQILQET LTTSSQANLSVCRSPVGDKAKDT TSAVLIQQTPEVIKIQNKPEKKP GTPLPPPATSPSSPRPLSPVPHV NNVVNAPLSINIPRFYFPEGLPD TCSNHEQTLSRIETAFMDIEEQK ADIYEMGKIAKVCGCPLYWKAPM FRAAGGEKTGFVTAQSFIAMWRK LLNNHHDDASKFICLLAKPNCSS LEQEDFIPLLQDVVDTHPGLTFL KDAPEFHSRYITTLFREYSTQST DLGVEKLLRQR*

				ATCTGTCTTCTAGCAAAGCCCAACTGCAGCTCTCTAGAACAGGAGGATTTCATC CCTCTACTTCAGGATGTGGTGGATACCCACCCTGGTCTCACGTTCCTGAAAGAT GCTCCAGAATTCCACTCCCGCTACATCACCACGTTATTCAGAGAATATTCTACA CAGTCAACAGATCTTGGAGTGGAAAAATTACTTCGACAGAGATAA		
Human hGIT1_v4	11	prey12996	681	GATGGAAGCCATGGGAATTGAGCCCTTGCCATTCCATGATTTACTGTGCCAGAT GCTTGACCTAGTGAAGCCAGCTGTTGATGGCAAAATAACTCTAAGAGATCTGAA GAGGTGCAGAATGGCTCACATCTTCTATGACACTTTCTTTAATCTGGAGAAATA CTTAGACCATGAACAGAGAGATCCCTTTGCGGTCCAGAAGGATGTTGAGAACGA TGGGCCTGAGCCCTCAGACTGGGACCGGTTTGCCGCTGAGGAGTATGAGACGCT TGTTGCAGAGGAATCTGCCCAAGCACAATTCCAGGAAGGCTTTGAAGATTATGA AACAGATGAACCTGCCTCTCCCTCTGAATTTGGAAACAAAAGCAATAAAATATT AAGTGCAAGCCTTCCAGAGAAATGTGGAAAGCTTCAATCAGTGGATGAAGAATA G	1419	MEAMGIEPLPFHDLLCQMLDLVK PAVDGKITLRDLKRCRMAHIFYD TFFNLEKYLDHEQRDPFAVQKDV ENDGPEPSDWDRFAAEEYETLVA EESAQAQFQEGFEDYETDEPASP SEFGNKSNKILSASLPEKCGKLQ SVDEE*
Human hGIT1_v4	11	prey19205	682	ATGGGAAGCAAAGGTGTCTACCAGTACCACTGGCAAAGCCACAATGTCAAGCAC AGTGGTGTGGACGACATGGTGCTACTGTCCAAGATCACAGAGAACTCCATCGTG GAGAATCTGAAGAAGAGATACATGGATGACTACATTTTTACATATATAGGATCT GTATTAATCTCAGTCAACCCTTTCAAGCAGATGCCATATTTTGGGGAAAAGGAA ATTGAAATGTACCAAGGAGCGGCACAGTATGAAAACCCACCACATATCTATGCC CTTGCAGATAATATGTACAGAAACATGATCATTGACAGAGAGAACCAGTGCGTC ATTATCAGTGGTGAAAGTGGTGCTGGAAAAACAGTGGCTGCCAAATATATCATG AGCTACATCTCCAGAGTGTCTGGAGGAGGGACCAAAGTCCAGCACGTGAAGGAC ATTATCCTGCAGTCCAACCCGCTGCTGGAGGCCTTCGGGAACGCCAAGACCGTC CGGAACAACAACTCCAGCCGATTTGGAAAATACTTTGAAATCCAGTTCAGTCCA GGTGGGGAACCAGATGGTGGAAAGATCTCCAACTTCCTTCTGGAAAAATCTAGG GTGGTGATGAGGAACCCAGGAGAGCGGAGTTTTCACATATTTTACCAGCTCATC GAGGGCGCCTCTGCAGAGCAGAAACACAGCCTTGGCATCACCAGCATGGACTAT TATTACTACCTGAGCCTCTCGGGCTCATACAAGGTTGATGACATTGACGACAGG CGGGAGTTTCAGGAAACTCTGCACGCCATGAATGTGATTGGGATCTTTGCAGAA GAGCAAACGCTGGTGTTGCAGATAGTGGCGGGTATTCTCCACCTGGGAAACATC AGCTTCAAAGAAGTTGGCAACTACGCGGCTGTGGAGAGTGAAGAGTTTTTAGCT TTTCCTGCATATCTGCTAGGGATAAACCAGGACCGGTTGAAAGAAAAGCTAACA AGCCGGCAGATGGATAGCAAGTGGGGAGGCAAATCCGAATCCATCCACGTGACC CTCAACGTAGAGCAGGCCTGTTACACCCGGGATGCGCTCGCCAAGGCCCTGCAC GCCCGGGTCTTTGATTTCTTGGTAGATTCCATCAATAAAGCCATGGAGAAAGAC CATGAAGAATACAACATTGGCGTCCTAGACATCTATGGCTTTGAAATATTCCAG AAAAATGGCTTTGAACAGTTTTGTATCAATTTTGTTAATGAAAAACTGCAGCAG ATTTTTATTGAACTGACATTAAAGGCAGAACAGGAAGAATATGTTCAAGAGGGA ATAAGATGGACACCCATTGAGTACTTTAATAATAAAATCGTATGTGACCTCATA GAGAACAAAGTGAACCCTCCTGGCATCATGAGCATCCTGGATGACGTGTGCGCC	1420	MGSKGVYQYHWQSHNVKHSGVDD MVLLSKITENSIVENLKKRYMDD YIFTYIGSVLISVNPFKQMPYFG EKEIEMYQGAAQYENPPHIYALA DNMYRNMIIDRENQCVIISGESG AGKTVAAKYIMSYISRVSGGGTK VQHVKDIILQSNPLLEAFGNAKT VRNNNSSRFGKYFEIQFSPGGEP DGGKISNFLLEKSRVVMRNPGER SFHIFYQLIEGASAEQKHSLGIT SMDYYYYLSLSGSYKVDDIDDRR EFQETLHAMNVIGIFAEEQTLVL QIVAGILHLGNISFKEVGNYAAV ESEEFLAFPAYLLGINQDRLKEK LTSRQMDSKWGGKSESIHVTLNV EQACYTRDALAKALHARVFDFLV DSINKAMEKDHEEYNIGVLDIYG FEIFQKNGFEQFCINFVNEKLQQ IFIELTLKAEQEEYVQEGIRWTP IEYFNNKIVCDLIENKVNPPGIM SILDDVCATMHAVGEGADQTLLQ KLQMQIGSHEHFNSWNQGFIIHH YAGKVSYDMDGFCERNRDVLFMD LIELMQSSELPFIKSLFPENLQA DKKGRPTTAGSKIKKQANDLVST LMKCTPHYIRCIKPNETKKPRDW

				ACGATGCATGCGGTGGGTGAGGGGGCAGATCAGACGCTGCTCCAGAAACTTCAG ATGCAGATTGGGAGTCATGAGCACTTCAACAGTTGGAACCAAGGCTTCATCATT CATCATTATGCTGGGAAGGTATCCTATGACATGGATGGCTTTTGTGAAAGGAAC CGGGATGTGCTTTTTATGGATCTCATCGAGCTTATGCAGAGCAGCGAGCTGCCT TTCATAAAGTCTTTATTTCCGGAAAATCTGCAGGCTGACAAGAAAGGGCGCCCA ACTACTGCCGGAAGCAAAATAAAGAAACAAGCCAATGACCTTGTGAGCACCCTG ATGAAATGTACGCCCCACTACATTCGCTGCATCAAGCCAAACGAAACCAAGAAG CCCAGAGACTGGGAGGAAAGCAGGGTAAAGCATCAAGTCGAATATTTGGGTCTG AAAGAGAACATTCGAGTGAGAAGAGCTGGCTATGCCTATCGGCGCATCTTCCAA AAATTCCTACAGAGGTATGCCATTCTGACCAAAGCCACCTGGCCTTCTTGGCAG GGAGAGGAGAAGCAAGGCGTCCTGCACCTGCTGCAGTCGGTCAACATGGACAGC GACCAGTTCCAGCTGGGGAGGAGTAAAGTGTTCATCAAAGCCCCCGAGTCTCTA TTTCTTTTAGAAGAGATGAGAGAGAGAAAGTATGATGGGTATGCTCGAGTGATA CAGAAATCATGGAGGAAATTCGTGGCCCGGAAGAAATACGTTCAAATGAGAGAA GAAGCCTCAGACCTCTTATTGAACAAGAAGGAGAGAAGGAGAAACAGTATTAAC AGGAACTTTATAGGGGATTATATTGGGATGGAAGAGCACCCAGAACTCCAGCAG TTCGTGGGCAAGAGGGAGAAGATTGATTTCGCAGACACAGTCACCAAGTATGAC AGGAGGTTCAAGGGTGTAAAGCGAGACCTGCTCCTTACCCCAAAGTGCTTGTAC TTAATCGGACGAGAAAAAGTCAAACAGGGCCCAGACAAGGGCCTGGTGAAAGAA GTCCTGAAGCGGAAAATCGAGATAGAACGGATCTTGTCTGTGTCCCTCAGTACT ATGCAGGATGACATTTTTATTCTCCATGAGCAAGAGTATGACAGTTTGCTTGAA TCTGTCTTCAAAACTGAATTCCTAAGCCTCTTAGCAAAGCGTTACGAGGAGAAG ACCCAGAAGCAACTACCTCTGAAATTCAGCAATACGCTTGAACTGAAGTTGAAA AAGGAAAACTGGGGCCCTGGAGTGCAGGGTGCGGGCTCCCGGCAAGTGCAGTTC CACCAAGGGTTTGGGGACCTGGCTGTCCTCAAGCCCAGTAACAAAGTGCTGCAG GTCAGCATCGGACCTGGACTGCCCAAGAACTCCCGTCCTACCAGAAGGAACACT ACCCAAAATACAGGTTATTCCAGTGGGACTCAAAATGCCAACTACCCAGTGAGA GCTGCCCCTCCTCCCCCAGGATACCATCAGAACGGAGTCATCAGAAACCAGTAT GTGCCATATCCCCATGCTCCTGGAAGCCAGAGGTCCATTCAGAAAAGCCTGTAC ACCTCCATGGCCCGCCCGCCCTTGCCTCGGCAGCAGTCTACCAGTTCAGACCGA GTGTCACAGACGCCAGAGAGCCTGGATTTCCTCAAGGTCCCGGACCAGGGAGCT GCAGGGGTCAGGAGACAAACAACCAGTCGGCCTCCCCCAGCTGGGGGCAGACCC AAGCCCCAGCCCAAGCCCAAGCCTCAGGTTCCACAGTGCAAGGCTTTGTATGCC TATGACGCTCAGGACACAGACGAACTCAGCTTTAATGCCAATGACATTATTGAT ATTATCAAAGAAGATCCTTCTGGCTGGTGGACGGGTCGACTACGAGGCAAGCCA GGGCTGTTCCCCAACAACTATGTGACCAAGATCTGA		EESRVKHQVEYLGLKENIRVRRA GYAYRRIFQKFLQRYAILTKATW PSWQGEEKQGVLHLLQSVNMDSD QFQLGRSKVFIKAPESLFLLEEM RERKYDGYARVIQKSWRKFVARK KYVQMREEASDLLLNKKERRRNS INRNFIGDYIGMEEHPELQQFVG KREKIDFADTVTKYDRRFKGVKR DLLLTPKCLYLIGREKVKQGPDK GLVKEVLKRKIEIERILSVSLST MQDDIFILHEQEYDSLLESVFKT EFLSLLAKRYEEKTQKQLPLKFS NTLELKLKKENWGPGVQGAGSRQ VQFHQGFGDLAVLKPSNKVLQVS IGPGLPKNSRPTRRNTTQNTGYS SGTQNANYPVRAAPPPPGYHQNG VIRNQYVPYPHAPGSQRSIQKSL YTSMARPPLPRQQSTSSDRVSQT PESLDFLKVPDQGAAGVRRQTTS RPPPAGGRPKPQPKPKPQVPQCK ALYAYDAQDTDELSFNANDIIDI IKEDPSGWWTGRLRGKPGLFPNN YVTKI*
Human hGIT1_v4	11	prey3634	683	CATCTTGGAACCTGTAGGCCTGCAGGAGGAGGCAGAACTGCCAGCCAAGATCCT GGTTGAGTTTGTGGTGGACTCTCAGAAGAAAGACAAGCTGCTCTGCAGCCAGCT TCAGGTAGCGGATTTCCTGCAGAACATCCTGGCTCAGGAGGACACTGCTAAGGG	1421	ILEPVGLQEEAELPAKILVEFVV DSQKKDKLLCSQLQVADFLQNIL AQEDTAKGLDPLASEDTSRQKAI

				TCTCGACCCCTTGGCTTCTGAAGACACGAGCCGACAGAAGGCAATTGCAGCTAA GGAACAATGGAAAGAGCTGAAGGCCACCTACAGGGAGCACGTAGAGGCCATCAA AATTGGCCTCACCAAGGCCCTGACTCAGATGGAGGAAGCCCAGAGGAAACGGAC ACAACTCCGGGAAGCCTTTGAGCAGCTCCAGGCCAAGAAACAAATGGCCATGGA GAAACGCAGAGCAGTCCAGAACCAGTGGCAGC		AAKEQWKELKATYREHVEAIKIG LTKALTQMEEAQRKRTQLREAFE QLQAKKQMAMEKRRAVQNQWQ
Human hGIT1_v4	11	prey4117	684	CAGTGACAGTAAAGGAGGGAAACAGAAGAGGCGGCCCGACGCCCTGAGGATGAT TTCCAATGCAGACCCTAGTATACCGCCTCCACCCAGAGCTCCTGCCCCTGCGCC CCCTGGGACCGTCACCCAGGTGGATGTTAGAAGTCGAGTGGCAGCCTGGTCTGC ATGGGCAGCCGACCAAGGGGACTTTGAGAAACCAAGGCAGTATCATGAGCAGGA AGAAACACCTGAGATGATGGCAGCCCGCATTGACAGAGATGTGCAAATCTTAAA CCACATTTTGGATGACATTGAATTTTTTATCACAAAACTCCAAAAAGCAGCAGA AGCATTTTCTGAGCTTTCTAAAAGGAAGAAAAACAAGAAAGGTAAAAGGAAAGG ACCAGGAGAGGGTGTTTTAACGCTGCGGGCAAAACCTCCACCTCCTGATGAATT TCTTGACTGTTTCCAAAAGTTTAAACACGGATTTAACCTTCTGGCCAAACTGAA GTCTCATATTCAGAATCCTAGTGCTGCAGATTTGGTTCACTTTTTGTTTACTCC ATTAAATATGGTGGTGCAGGCAACAGGAGGTCCTGAACTAGCCAGTTCAGTACT TAGTCCCCTATTGAATAAGGACACAATTGATTTCTTAAATTATACTGTCAATGG TGATGAACGGCAGCTGTGGATGTCATTGGGAGGAACTTGGATGAAAGCCAGAGC AGAGTGGCCAAAAGAACAGTTTATTCCACCATATGTTCCACGATTCCGCAATGG CTGGGAGCCCCCAAT	1422	SDSKGGKQKRRPDALRMISNADP SIPPPPRAPAPAPPGTVTQVDVR SRVAAWSAWAADQGDFEKPRQYH EQEETPEMMAARIDRDVQILNHI LDDIEFFITKLQKAAEAFSELSK RKKNKKGKRKGPGEGVLTLRAKP PPPDEFLDCFQKFKHGFNLLAKL KSHIQNPSAADLVHFLFTPLNMV VQATGGPELASSVLSPLLNKDTI DFLNYTVNGDERQLWMSLGGTWM KARAEWPKEQFIPPYVPRFRNGW EPP
Human hGIT1_v4	11	prey24349	685	GGNAGGGGGGCCTGGCGGGCGGCAGCTTCCCAAGGCCTGGGGCTGGGCCGAGG ACAGGAGCCGGTAGTAGGGGGTGCAGAGAGGCTGGCAGGGCAGGAAGCCAGGCC AGAGAAGGGGGAGCCTGGCTGCCTTACCCGGCTGGCCCAGCATGTTGGCAAAGC GGACATCAGTGCTGACTGCTGGATATAGCTCCATCCAGGTGGACATAGAGTGCA GCTGCCCTGTCTCATGCAGCTCGTCCAGGAAGGTCTGGAAGGCCTCCCGATTCT TGCGTTGTTGGCGTCGCTCCCGAAGCCGGGCCCGCTCCCGTTCCTCCTCCTCTT CCCTCTCCAAAGCTCGG	1423	GRGAWRAAASQGLGAGPRTGAGS RGCREAGRAGSQAREGGAWLPYP AGPACWQSGHQC*LLDIAPSRWT *SAAALSHAARPGRSGRPPDSCV VGVAPEAGPAPVPPPLPSPKL
Human hGIT1_v4	11	prey12958	686	ATGCGGCAGACTGAAGGACGGGTGCCTGTTTTCAGCCATGAGGTAGTCCCTGAC CATCTGAGAACCAAGCCTGACCCTGAAGTGGAAGAACAGGAGAAGCAACTGACG ACAGATGCTGCCCGCATTGGTGCAGATGCAGCCCAGAAGCAGATCCAGAGCTTG AATAAAATGTGTTCAAACCTTCTGGAGAAAATCAGCAAAGAGGAGCGAGAATCA GAGAGTGGAGGTCTCCGGCCGAACAAGCAGACCTTTAACCCTACAGACACTAAT GCCTTGGTGGCAGCTGTTGCCTTTGGGAAAGGACTATCTAATTGGAGACCTTCA GGCAGCAGTGGTCCTGGCCAGGCAGGCCAGCCAGGAGCTGGGACGATCCTTGCA GGAACCTCAGGATTACAGCAGGTGCAGATGGCAGGAGCTCCAAGCCAGCAGCAG CCAATGCTCAGTGGGGTACAAATGGCTCAGGCAGGTCAACCAGGGAAAATGCCA AGTGGAATAAAAACCAACATCAAGTCGGCTTCCATGCATCCCTACCAGCGGTGA	1424	MRQTEGRVPVFSHEVVPDHLRTK PDPEVEEQEKQLTTDAARIGADA AQKQIQSLNKMCSNLLEKISKEE RESESGGLRPNKQTFNPTDTNAL VAAVAFGKGLSNWRPSGSSGPGQ AGQPGAGTILAGTSGLQQVQMAG APSQQQPMLSGVQMAQAGQPGKM PSGIKTNIKSASMHPYQR*
Human hGIT1_v4	11	prey27561	687	CTTGAAGAACTGAAAATGAACAAGATACAACTGCAGCTTTTTCAACTATACCAT AATGAGAAAAAGATTCATCTCCTGAACACCAAGTTAGAGCATGTGAATAGGGAT	1425	LEELKMNKIQLQLFQLYHNEKKI HLLNTKLEHVNRDLSVKRESLSH

				TTGAGTGTCAAAAGAGAGTCTTTGTCTCATCATGAAAACATAGTTAAAGCCAGG AAAAAGGAACATGGAATGCTAACTAGACAACTACAACAAACAGAAAAAGAATTA AAATCGGTTGAAACCCTTTTAAATCAGAAGAGGCCTCAGTACATTAAAGCCAAA GAAAACACTTCTCACCACCTTAAGAAATTAGATGTGGCTAAGAAATCAATAAAG GACAGCGAAAAACAATGTTCTAAACAGGAAGATGATATAAAAGCCCTGGAGACA GAGCTGGCTGATTTAGATGCTGCATGGAGAAGTTTTGAAAAGCAGATTGAGGAA GAAATTTTACATAAAAAGCGAGACATTGAACTGGAAGCCAGTCAGCTGGATCGT TATAAAGAACTTAAGGAACAAGTAAGAAAGAAAGTAGCTACAATGACTCAACAA CTGGAAAAACTGCAGTGGGAACAGAAGACAGATGAAGAAAGACTGGCATTTGAA AAGAGGAGGCATGGAGG		HENIVKARKKEHGMLTRQLQQTE KELKSVETLLNQKRPQYIKAKEN TSHHLKKLDVAKKSIKDSEKQCS KQEDDIKALETELADLDAAWRSF EKQIEEEILHKKRDIELEASQLD RYKELKEQVRKKVATMTQQLEKL QWEQKTDEERLAFEKRRHG
Human hGIT1_v4	11	prey24355	688	GCGTGTTTAGAGTGGTTAGANTGANAAGGAGCGGCATGGGAGGCGGTTTGTGAG TGCNANCCNGGGGTTATTGANGAGAGNCGCTGTTNTCAGAGCTGGNGNATTTGG NAGNANTGAAANGTGGATNTANNGATNNANNACTTGATTNNNCANNGNNGGTAT NTATNCCCTGGNTTGGGTGACTNNTTGTTTTTGCNCAGCGGGGGGNGGGNTGGT NGNGGGGGGGGGGGTGGTTGGGGNNGGNGCGGGNGGNGGNTGGGTNGCNNGNN TTGTNGTNGNNCGCCTTNGCGNCGTNTTNTTTGGGNCGTGGNTTGNNNNGGGNG GNNTTGGNNGGTTNCTGTNGGGCCGGGNGGGGGTNTGTNNGNGGGTGGGTTCTG CGGTCCGCGGNGGGGGGTGGGNGCGCGGGNNGAGGGGTGNGTNNGTGTNTTGNC GCNNNATGCGGGCGGNGTGTNNGCCGNNNNTNGTTNNGCCGCNCGTNNTTGN	1426	ACLEWLX*XGAAWEAVCECXPGV IXEXRCXQSWXIWXX*XVDXXXX XLIXXXXYXXPGLGDXLFLXSGG XXGXGGGGWLGXXRXXXGXXXLX XXAXAXXXLGRGLXXXXLXGXCX AGXGXVXGWVLRSAXGGGXAGXG VXXCXXAXCGRXVXRXXXXRXXL
Human hGIT1_v4	11	prey2306	689	CAAGCGTCGCGTTTCTGAGGAGAAACTCTTGGTGAGAATTCCCAGAGTGATAAT GGCTACCTACAGCCTGGCGAACGAGAGACTACGCGCTCTGGAAGACATTGAGCG GGAAATCGGCGCCATCCTTCAGAATGCAGGTACTGTGATCCTAGAATTGTCCAA GGAAAAAACTAACGAGCGGCTCCTAGACCGGCAGGCGGCGGCCTTCACCGCTTC AGTGCAACACGTGGAGGCGGAGCTGTCAGCTCAGATCCGCTACCTCACCCAGGT GGCCACAGGGCAGCCCCATGAGGGCTCCAGCTACTCTTCGAGGAAGGACTGTCA GATGGCTCTGAAGCGAGTGGACTATGCCCGCCTCAAGCTCAGTGATGTGGCTCG AACCTGTGGGCAGATGCTGGAGAACTAG	1427	KRRVSEEKLLVRIPRVIMATYSL ANERLRALEDIEREIGAILQNAG TVILELSKEKTNERLLDRQAAAF TASVQHVEAELSAQIRYLTQVAT GQPHEGSSYSSRKDCQMALKRVD YARLKLSDVARTCGQMLEN*
Human hGIT1_v4	11	prey11345	690	AGAGATAGCATATTATCAGAAATGAAGATGCTAAAAGAGAAGAGGCAGCAGTCA GAGAAAACCTTCATGCCTAAGCAACGTAGCTTACAGAGTTTGGAGGCAAGCTTG CATGCTATGGAGTCTACCAGAGAGTCATTGAAAGCAGAACTGGGAACTGATTTG CTTTCTCAACTGAGTTTGGAAGATCAGAAGAGAGTAGATGCACTGAATGATGAG ATTCGTCAACTTCAGCAGGAAAACAGACAGTTGCTAAATGAAAGAATTAAATTA GAAGGTATTATTACTCGAGTAGAGACTTATCTCAATGAGAATCTGAGAAAACGC TTGGACCAAGTAGAACAGGAACTTAATGAGCTGAGAGAGACAGAAGGGGGTACT GTTCTCACAGCCACAACATCAGAACTTGAAGCCATCAATAAAAGAGTAAAAGAC ACTATGGCACGATCAGAAGATTTGGACAATTCCATTGATAAAACAGAAGCTGGA ATTAAGGAGCTTCAGAAGAGTATGGAGCGCTGGAAAAATATGGAAAAAGAACAT ATGGATGCTATAAATCATGATACTAAAGAACTGGAAAAGATGACAAATCGGCAA GGCATGCTATTGAAGAAGAAAGAAGAGTGTATGAAGAAAATTCGAGAACTTGGA	1428	RDSILSEMKMLKEKRQQSEKTFM PKQRSLQSLEASLHAMESTRESL KAELGTDLLSQLSLEDQKRVDAL NDEIRQLQQENRQLLNERIKLEG IITRVETYLNENLRKRLDQVEQE LNELRETEGGTVLTATTSELEAI NKRVKDTMARSEDLDNSIDKTEA GIKELQKSMERWKNMEKEHMDAI NHDTKELEKMTNRQGMLLKKKEE CMKKIRELGSLPQEAFEKYQT

				TCACTTCCCCAGGAAGCATTTGAAAAGTACCAGACAC		
Human hGIT1_v4	11	prey4752	691	CATCGTGATGTCTTATTTAAGGGGAACGTGTGGGCTATTTAGGCTTTATGACCC TGAAGTAGGAACCAGATGTCGGATACAGTTCACTTTAGCTACCCCCAAGTGTTA TGGGCCCGGAGCGAGGAGAGTAGCACTCTTGTGCGGGATATTGATTTCACGGAG GATGGTGGTCAAGGGACCCCTATCTGAGGGGGGTCATCCATGGGGACGAGAAGG GATTTGACTGTAATGTGCTATGTACGGTAAATGGCTTTATGTACTATGTACTGT TAAGGGTGGGTAGGTTTGTTGGTATCCTAGTGGGTGAGGGGTGGCTTTGGAGTT GCAGTTGATGTGTGATAGTTGAGGGTTGATTGCTGTACTTGCTTGTAAGCATGG GGAGGGGGTTTTGATGTGGATTGGGTTTTTATGTACTACAGGTGGTCAAGTATT TATGGTACCGTACAATATTCATGGTGGCTGGCAGTAATGTACGAAATACATAGC GGTTGTTGATGGGTGAGTCAATACTTGGGTGGTACCCAAATCTGCTTCCCCATG AAAGAACAGAGAATAGTTTAAATTAGAATCTTAGCTTTGGGTGCTAATGGTGGA GTTAAAGACTTTTTCTCTGATTTGTCCTTGGAAAAAGGTTTTCATCTCCGGTTT ACAAGACTGGTGTATTAGTTTATACTACAAGGACAGGCCCATTTGAGTATTTTG TTTTCAATTAGGGAGATAGTTGGTATTAGGATTAGGATTGTTGTGAAGTATAGT ACGGATGCTACTTGTCCAATGATGGTAAAAGGGTAGCTTACTGGTTGTCCTCCG ATTCAGGTTAGAATGAGGAGGTCTGCGGCTAGGAGTCAATAAAGTGATTGGCTT AGTGGGCGAAATATTATGCTTTGTTGTTTGGATATATGGAGGATGGGGATTATT GCTAGGATGAGGATGGATAGTAATAGGGCAAGGACGCCTCCTAGTTTGTTAGGG ACGGATCGGAGAATTGTGTAGGCGAATAGGAAATATCATTCGGGCTTGATGTGG GGAGGGGTGTTTAAGGGGTTGGCTAGGGTATAATTGTCTGGGTCGCCTAGGAGG TCTGGTGAGAATAGTGTTAATGTCATTAAGGAGAGAAGGAAGAGAAGTAAGCCG AGGGCGTCTTTGATTGTGTAGTAAGGGTGGAAGGTGATTTTATCGGAATGGGAG GTGATTCCTAGGGGGTTGTTTGATCCCGTTTCGTGCAAGAATAGGAGGTGGAGT GTTGCTAGGGCTGCAATAATGAAGGGCAAGATGAAGTGAAAGGTAAAGAATCGT GTGAGGGTGGGACTGTCTACTGAGTAGCCTCCTCAGATTCATTGAACTAGGTCT GTCCCAATGTATGGGATGGCGGATAGTAAGTTTGTAATTACTGTGGCCCCTCAG AATGATATTTGGCCTCACGGGAGGACATAGCCTATGAAGGCTGTTGCTATAGTT GCAAGCAGGAGGATAATGCCGATGTTTCAGGTTTCTGAGTAGAGAAATGATCCG TAATATAGGCCTCGCCCGATGTGTAGGAAGAGGCAGATAAAGAATATTGAGGCG CCATTGGCGTGAAGGTAGCGGATGATTCAGCCATAATTTACGTCTCGAGTGATG TGGGCGATTGATGAAAAGGCGGTTGAGGCGTCTGGTGAGTAGTGCATGGCTAGG AATAGTCCTGTGGTGATTTGGAGGATCAGGCAGGCGCCAAGGAGTGAGCCGAAG TTTCATCATGCGGAGATGTTGGATGGGGTGGGAGGTCGATGAATGAGTGGTTA ATTAATTTTATTAGGGGGTTAGTTTTGCGTATTGGGGTCATTGGTGTTCTTGTA GTTGAAATACAACGATGGTTTTTCATATCATTGGTCGTGGTTGTAGTCCGTGCG AGAATAATGATGTATGCTTTGTTTCTGTTGAGTGTGGGTTTAGTAATGGGGTTT GTGGGGTTTTCTTCTAAGCCTTCTCCTATTTATGGGGGTTTAGTATTGATTGTT AGCGGTGTGGTCGGGTGTGTTATTATTCTGAATTTTGGGGGAGGTTATATGGGT	1429	HRDVLFKGNVWAI*AL*P*SRNQ MSDTVHFSYPQVLWARSEESSTL VRDIDFTEDGGQGTPI*GGSSMG TRRDLTVMCYVR*MALCTMYC*G WVGLLVS*WVRGGFGVAVDV**L RVDCCTCL*AWGGGFDVDWVFMY YRWSSIYGTVQYSWWLAVMYEIH SGC*WVSQYLGGTQICFPMKEQR IV*IRILALGANGGVKDFFSDLS LEKGFHLRFTRLVY*FILQGQAH LSILFSIREIVGIRIRIVVKYST DATCPMMVKG*LTGCPPIQVRMR RSAARSQ*SDWLSGRNIMLCCLD IWRMGIIARMRMDSNRARTPPSL LGTDRRIV*ANRKYHSGLMWGGV FKGLARV*LSGSPRRSGENSVNV IKERRKRSKPRASLIV**GWKVI LSEWEVIPRGLFDPVSCKNRRWS VARAAIMKGKMK*KVKNRVRVGL STE*PPQIH*TRSVPMYGMADSK FVITVAPQNDIWPHGRT*PMKAV AIVASRRIMPMFQVSE*RNDP*Y RPRPMCRKRQIKNIEAPLA*R*R MIQP*FTSRVMWAIDEKAVEASG E*CMARNSPVVIWRIRQAPRSEP KFHHAEMLDGVGRSMNEWLINFI RGLVLRIGVIGVLVVEIQRWFFI SLVVVVVRARIMMYALFLLSVGL VMGFVGFSSKPSPIYGGLVLIVS GVVGCVIILNFGGGYMGLIVFLI YLGGMMVVFGYTTAMAIEEYPEA WGSGVEVLVSVLVGLAMEVGLVL WVKEYDGVVVVVNFNSVGS*IIY EGEGSGLIREDPIGAGALYDYGR *LVVVTG*TLFVGVYIVIEIARG NRLCD*E*G*DEWEEEREEVKFN YAFLG*GDDGGGDLVL*NCFR** LF*SG*V*EE*GQVLARKKA*IG

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				TAGCTTTACAGTGGGCTCTAGAGGGGGTAGAGGGGGTGCTATAGGGTAAATACG		*GGLELCLGLQLMRRIIGIVFQC
				GGCCCTATTTCAAAGATTTTTAGGGGAATTAATTCTAGGACGATGGGCATGAAA		LCGL*RIVNGRRTSVGVR*NG*V

				CTGTGGTTTGCTCCACAGATTTCAGAGCATTGACCGTAGTATACCCCCGGTCGT GTAGCGGTGAAAGTGGTTTGGTTTAGACGTCCGGGAATTGCATCTGTTTTTAAG CCTAATGTGGGGACAGCTCATGAGTGCAAGACGTCTTGTGATGTAATTATTATA CGAATGGGGGCTTCAATCGGGAGTACTACTCGATTGTCAACGTCAAGGAGTCGC AGGTCGCCTGGTTCTAGGAATAATGGGGGAAGTATGTAGGAGTTGAAGATTAGT CCGCCGTAGTCGGTGTACTCGTAGGTTCAGTACCATTGGTGGCCAATTGATTTG ATGGTAAGGGAGGGATCGTTGACCTCGTCTGTTATGTAAAGGATGCGTAGGGAT GGGAGGGCGATGAGGACTAGGATGATGGCGGGCAGGATAGTTCAGACGGTTTCT ATTTCCTGAGCGTCTGAGATGTTAGTATTAGTTAGTTTTGTTGTGAGTGTTAGG AAAAGGGCATACAGGACTAGGAAGCAGATAAGGAAAATGATTATGAGGGCGTGA TCATGAAAGGTGATAAGCTCTTCTATGATAGGGGAAGTAGCGTCTTGTAGACCT ACTTGCGCTGCATGTGCCATTAAGATATATAGGATTTAGCCTATAATTTAACTT TGACAAAGTTATGAAATGGTTTTTCTAATACCTTTTTGAAAAAGTCATGGAGGC CATGGGGTTGGCTTGAAACCAGCTTTGGGGGGTTCGATTCCTTCCTTTTTTGTC TAGATTTTATGTATACGGGTTCTTCGAATGTGTGGTAGGGTGGGGGCATCCAT ATAGTCACTCCAGGTTTATGGAGGGTTCTTCTACTATTAGGACTTTTCGCTTCG AAGCGAAGGCTTCTCAAATCATGAAAATTATTAATATTACTGCTGTTAGAGAAA TGAATGAGCCTACAGATGATAGGATGTTTCATGTGGTGTATGCATCGGGGTAGT CCGAGTAACGTCGGGGCATTCCGGATAGGCCGAGAAAGTGTTGTGGGAAGAAAG TTAGATTTACGCCGATGAATATGATAGTGAAATGGATTTTGGCGTAGGTTTGGT CTAGGGTGTAGCCTGAGAATAGGGGAAATCAGTGAATGAAGCCTCCTATGATGG CAAATACAGCTCCTATTGATAGGACATAGTGGAAGTGGGCTACAACGTAGTACG TGTCGTGTAGTACGATGTCTAGTGATGAGTTTGCTAATACAATGCCAGTCAGGC CACCTACGGTGAAAAGAAAGATGAATCCTAGGGCTCAGAGCACTGCAGCAGATC ATTTCATATTGCTTCCGTGGAGTGTGGCGAGTCAGCTAAATACTTTGACGCCGG TGGGGATAGCGATGATTATGGTAGCGGAGGTGAAATATGCTCGTGTGTCTACGT CTATTCCTACTGTAAATATATGGTGTGCTCACACGATAAACCCTAGGAAGCCAA TTGATATCATAGCTCAGACCATACCTATGTATCCAAATGGTTCTTTTTTTCCGG AGTAGTAAGTTACAATATGGGAGATTATTCCGAAGCCTGGTAGGATAAGAATAT AAACTTCAGGGTGACCGAAAAATCAGAATAGGTGTTGGTATAGAATGGGGTCTC CTCCTCCGGCGGGGTCGAAGAAGGTGGTGTTGAGGTTGCGGTCTGTTAGTAGTA TAGTGATGCCAGCAGCTAGGACTGGGAGAGATAGGAGAAGTAGGACTGCTGTGA TTAGGACGGATCAGACGAAGAGGGGCGTTTGGTATTGGGTTATGGCAGGGGGTT TTATATTGATAATTGTTGTGATGAAATTGATGGCCCCTAAGATAGAGGAGACAC CTGCTAGGTGTAAGGAGAAGATGGTTAGGTCTACGGAGGCTCCAGGGTGGAGT AGTTCCCTGCTAAGGGAGGGTAGACTGTTCAACCTGTTCCTGCTCCGGCCTCCA CTATAGCAGATGCGAGCAGGAGTAGGAGAGAGGGAGGTAAGAGTCAGAAGCTTA TGTTGTTTATGCGGGGAAACGCCATATCGGGGGCACCGATTATTAGGGGAACTA GTCAGTTGCCAAAGCCTCCGATTATGATGGGTATTACTATGAAGAAGATTATTA		KHWTVNLKTGVRPLFTSSEVIFI LNCKFEEAASNLPGLLPPFFPAA GEVD*SQLIRVLSC*LSVCGFKS HWSSKGLA*LKWLICVQLMQSGV LQSLAVTEIKYCNLLRALKALGL YLT*ISIRLLV*KGR*VGVAW*G R*VWGGMGWVLYVQTVILFLRC* IWGVV*LRWSRLGVGRSRG*GG* WWL*WWG**GYCFL*ILR*WPIW AKSRLAGAGLLGRGGWMELRVLV MLACFRCEIVVGSWCWSLS*VVG MR**LG*YK*LN*EWLC*GCTVE LLLFILCG*LRSMLRFCVAGFGL IHLNCLL*WIRLRE*GEGLRLVR ERFGI*LRWGLVFVM*EEAGRMS EGCLG*PLGLRSERGLFLVLLL* LL*LLMMSIDW*YWLWFIVRRVY C*RG*LLEGLWMRLLA*GNT*WQ LLWNEGLFFWLELE*KLACLFLG LLR*KISASLAL**VCLQRW*SR *RVGPGD*LVREGYNQHFRGMGP IAYLADLTLGWGVIGGTENFGFS GMGSILIVLEIRGFKLLLFTLSK *LFYQTYFLGLRGNAGDCNGYGD ISYK*C*GEW*EVFS*EVYELVV AESGVCCSNS*EQGG*K*GLGDK ICCVEFRGECVICCS*EDCSGEG VYYNNVCVFGYEE*GEGACGVFD VEA*D*FGLPFGKVEGGSVGLC* CGDKSYYGQGS*WQE*SEVFLCC DKGGEVKGATY**C***NDG*GD FI*DCLGYCSQCADQGVV*V*CS P*SED*VNG*ARGG*NK*EA*VE VDQGVGYGEGGS**KSDGES*GR GGDVEGDGRCGGF*GLFGEEFYG VSEGL**PVGAYNVGAFA*LYIA *NFSFGKH*ECHCD*NGYNEE*E VGHGYVVKKRN*TSDCKVLSFMR LPGSAILTNPVLGWVWV*Y*VEM

				CAAATGCATGGGCTGTGACGATAACGTTGTAGATGTGGTCGTTACCTAGAAGGT TGCCTGGCTGGCCCAGCTCGGCTCGAATAAGGAGGCTTAGAGCTGTGCCTAGGA CTCCAGCTCATGCGCCGAATAATAGGTATAGTGTTCCAATGTCTTTGTGGTTTG TAGAGAATAGTCAACGGTCGGCGAACATCAGTGGGGGTGAGGTAAAATGGCTGA GTGAAGCATTGGACTGTAAATCTAAAGACAGGGGTTAGGCCTCTTTTTACCAGC TCCGAGGTGATTTTCATATTGAATTGCAAATTCGAAGAAGCAGCTTCAAACCTG CCGGGGCTTCTCCCGCCTTTTTTCCCGGCGGCGGGAGAAGTAGATTGAAGCCAG TTGATTAGGGTGCTTAGCTGTTAACTAAGTGTTTGTGGGTTTAAGTCCCATTGG TCTAGTAAGGGCTTAGCTTAATTAAAGTGGCTGATTTGCGTTCAGTTGATGCAG AGTGGGGTTTTGCAGTCCTTAGCTGTTACAGAAATTAAGTATTGCAACTTACTG AGGGCTTTGAAGGCTCTTGGTCTGTATTTAACCTAAATTTCTATAAGATTATTA GTATAAAAGGGGAGATAGGTAGGAGTAGCGTGGTAAGGGCGATGAGTGTGGGGA GGAATGGGGTGGGTTTTGTATGTTCAAACTGTCATTTTATTTTTACGTTGTTAG ATATGGGGAGTAGTGTGATTGAGGTGGAGTAGATTAGGCGTAGGTAGAAGTAGA GGTTAAGGAGGGTGATGGTGGCTATGATGGTGGGGATGATGAGGCTATTGTTTT TTGTGAATTCTTCGATAATGGCCCATTTGGGCAAAAAGCCGGTTAGCGGGGGCA GGCCTCCTAGGGAGAGGAGGGTGGATGGAATTAAGGGTGTTAGTCATGTTAGCT TGTTTCAGGTGCGAGATAGTAGTAGGGTCGTGGTGCTGGAGTTTAAGTTGAGTA GTAGGAATGCGGTAGTAGTTAGGATAATATAAATAGTTAAATTAAGAATGGTTA TGTTAGGGTTGTACGGTAGAACTGCTATTATTCATCCTATGTGGGTAATTGAGG AGTATGCTAAGATTTTGCGTAGCTGGGTTTGGTTTAATCCACCTCAACTGCCTG CTATGATGGATAAGATTGAGAGAGTGAGGAGAAGGCTTACGTTTAGTGAGGGAG AGATTTGGTATATGATTGAGATGGGGGCTAGTTTTTGTCATGTGAGAAGAAGCA GGCCGGATGTCAGAGGGGTGCCTTGGGTAACCTCTGGGACTCAGAAGTGAAAGG GGGCTATTCCTAGTTTTATTGCTATAGCTATTATGATTATTAATGATGAGTATT GATTGGTAGTATTGGTTATGGTTCATTGTCCGGAGAGTATATTGTTGAAGAGGA TAGCTATTAGAAGGATTATGGATGCGGTTGCTTGCGTGAGGAAATACTTGATGG CAGCTTCTGTGGAACGAGGGTTTATTTTTTTGGTTAGAACTGGAATAAAAGCTA GCATGTTTATTTCTAGGCCTACTCAGGTAAAAAATCAGTGCGAGCTTAGCGCTG TGATGAGTGTGCCTGCAAAGATGGTAGAGTAGATGACGGGTTGGGCCAGGGGAT TAATTAGTACGGGAAGGGTATAACCAACATTTTCGGGGTATGGCCCGATAGCT TATTTAGCTGACCTTACTTTAGGATGGGGTGTGATAGGTGGCACGGAGAATTTT GGATTCTCAGGGATGGGTTCGATTCTCATAGTCCTAGAAATAAGGGGGTTTAAG CTCCTATTATTTACTCTATCAAAGTAACTCTTTTATCAGACATATTTCTTAGGT TTGAGGGGGAATGCTGGAGATTGTAATGGGTATGGAGACATATCATATAAGTAA TGCTAGGGTGAGTGGTAGGAAGTTTTTTCATAGGAGGTGTATGAGTTGGTCGTA GCGGAATCGGGGGTATGCTGTTCGAATTCATAAGAACAGGGAGGTTAGAAGTAG GGTCTTGGTGACAAAATATGTTGTGTAGAGTTCAGGGGAGAGTGCGTCATATGT TGTTCCTAGGAAGATTGTAGTGGTGAGGGTGTTTATTATAATAATGTTTGTGTA		ISFTGEGAL*SRPYFSCPFVQGG I*SR*KPTWITPV*TQIT*DFNR *TNEPLIAAAPSGCPDPTSRS*T LLLIWTLE*DCAVIPRVTCSVGQ VIGSIEYSSSL*LVKS*HVLLGG WVLLRGRPNRNF*CRFGSLGPVG LLGTVCINKLKLHRVFSSCCVMP ASSRAGQFHWLKVRDS*TLVEPF IQVPI*GTSDYATFARLGYRGR* TCVTGQAVPLILVMLEVMFLVNR RGKICRVPFTFFNLSL*ACLCWV DSEGNNDLLVDCRYWAVNCQFSV LI*RRLMRRRMFSCYLY*H*FFY RVIDWSNWV*GVQLYVWDFLGSG C*A*TLS*LVAAFRPTMGVKFFT LSTRFFPSVQRAVPLWTNS*IYK GI*RVLWANLKLN*DSILDNQLS PGSVGLSPLPINLPTILLHRRVC SFSCS*VARLVSGVLALALLAKL FLVNSLCRRYRG*SLLYYAWL*F FIFPLRYYIYCARFQFLSPILYL GKWFG*GCLVVRWSGFGARFSSE RSS*VEIS*V*VGCFVLSYTLVR PSALSSTLTMLRLVSSI*MRRGF S*MSFEVYLRRVTGGVYALQGPV QLSTLLLVYC*IHLRPLSFIRAI VVFWGRKCSPFLATSWATP*PNV FTWVLALTL*PSSGFAEDGGI*A EQEVVRLIGVYRLQNRLL*RDMK HRQVL*VLSCGS*CSGEQFC*FN C*GLGLSIVGYLIPVWVLAIVCS DMLKPLS*SILCQLEFFTQVSF SFIGEGVI*NTLYAGFY*LGLIV *PRWLARN*PTLGLV*LS*TFVY C*RLITAVSRGGVARLSVLSCIA ACLMLVPFDRGDLEGELTGTGML ACVILLRANRKARTKPICLWGDV SPSKHFQCIALRR*AT*TVGGVF GVWLVRGMGLAAVCVCWVGWAGV

				TTCGGCTATGAAGAATAGGGCGAAGGGGCCTGCGGCGTATTCGATGTTGAAGCC TGAGACTAGTTCGGACTCCCCTTCGGCAAGGTCGAAGGGGGTTCGGTTGGTCTC TGCTAGTGTGGAGATAAATCATATTATGGCCAAGGGTCATGATGGCAGGAGTAA TCAGAGGTGTTCTTGTGTTGTGATAAGGGTGGAGAGGTTAAAGGAGCCACTTAT TAGTAATGTTGATAGTAGAATGATGGCTAGGGTGACTTCATATGAGATTGTTTG GGCTACTGCTCGCAGTGCGCCGATCAGGGCGTAGTTTGAGTTTGATGCTCACCC TGATCAGAGGATTGAGTAAACGGCTAGGCTAGAGGTGGCTAGAATAAATAGGAG GCCTAGGTTGAGGTTGACCAGGGGGTTGGGTATGGGGAGGGGGGTTCATAGTAG AAGAGCGATGGTGAGAGCTAAGGTCGGGGCGGTGATGTAGAGGGTGATGGTAGA TGTGGCGGGTTTTAGGGGCTCTTTGGTGAAGAGTTTTATGGCGTCAGCGAAGGG TTGTAGTAGCCCGTAGGGGCCTACAACGTTGGGGCCTTTGCGTAGTTGTATATA GCCTAGAATTTTTCGTTCGGTAAGCATTAGGAATGCCATTGCGATTAGAATGGG TACAATGAGGAGTAGGAGGTTGGCCATGGGTATGTTGTTAAGAAGAGGAATTGA ACCTCTGACTGTAAAGTTTTAAGTTTTATGCGATTACCGGGCTCTGCCATCTTA ACAAACCCTGTTCTTGGGTGGGTGTGGGTATAATACTAAGTTGAGATGATATCA TTTACGGGGGAAGGCGCTTTGTGAAGTAGGCCTTATTTCTCTTGTCCTTTCGTA CAGGGAGGAATTTGAAGTAGATAGAAACCGACCTGGATTACTCCGGTCTGAACT CAGATCACGTAGGACTTTAATCGTTGAACAAACGAACCTTTAATAGCGGCTGCA CCATCGGGATGTCCTGATCCAACATCGAGGTCGTAAACCCTATTGTTGATATGG ACTCTAGAATAGGATTGCGCTGTTATCCCTAGGGTAACTTGTTCCGTTGGTCAA GTTATTGGATCAATTGAGTATAGTAGTTCGCTTTGACTGGTGAAGTCTTAGCAT GTACTGCTCGGAGGTTGGGTTCTGCTCCGAGGTCGCCCCAACCGAAATTTTTAA TGCAGGTTTGGTAGTTTAGGACCTGTGGGTTTGTTAGGTACTGTTTGCATTAAT AAATTAAAGCTCCATAGGGTCTTCTCGTCTTGCTGTGTTATGCCCGCCTCTTCA CGGGCAGGTCAATTTCACTGGTTAAAAGTAAGAGACAGCTGAACCCTCGTGGAG CCATTCATACAGGTCCCTATTTAAGGAACAAGTGATTATGCTACCTTTGCACGG TTAGGGTACCGCGGCCGTTAAACATGTGTCACTGGGCAGGCGGTGCCTCTAATA CTGGTGATGCTAGAGGTGATGTTTTTGGTAAACAGGCGGGGTAAGATTTGCCGA GTTCCTTTTACTTTTTTTAACCTTTCCTTATGAGCATGCCTGTGTTGGGTTGAC AGTGAGGGTAATAATGACTTGTTGGTTGATTGTAGATATTGGGCTGTTAATTGT CAGTTCAGTGTTTTAATCTGACGCAGGCTTATGCGGAGGAGAATGTTTTCATGT TACTTATACTAACATTAGTTCTTCTATAGGGTGATAGATTGGTCCAATTGGGTG TGAGGAGTTCAGTTATATGTTTGGGATTTTTTAGGTAGTGGGTGTTGAGCTTGA ACGCTTTCTTAATTGGTGGCTGCTTTTAGGCCTACTATGGGTGTTAAATTTTTT ACTCTCTCTACAAGGTTTTTTCCTAGTGTCCAAAGAGCTGTTCCTCTTTGGACT AACAGTTAAATTTACAAGGGGATTTAGAGGGTTCTGTGGGCAAATTTAAAGTTG AACTAAGATTCTATCTTGGACAACCAGCTATCACCAGGCTCGGTAGGTTTGTCG CCTCTACCTATAAATCTTCCCACTATTTTGCTACATAGACGGGTGTGCTCTTTT AGCTGTTCTTAGGTAGCTCGTCTGGTTTCGGGGGTCTTAGCTTTGGCTCTCCTT		VLMRLVVWEWEGKIMC*LGGDC* KCIPPKDKI*NLVRLVLGFFVFG VWQRCV*VLWPEAGEGGFGGNFL L*CLCGKWLCRHSIVIIMSYKH* LINTL**VCSPVILNVGAINNRM RQESKTDTAT*GAPAPASRNAIA CIPPRRKYQMHGELP*VVNRVID L*

				GCAAAGTTATTTCTAGTTAATTCATTATGCAGAAGGTATAGGGGTTAGTCCTTG CTATATTATGCTTGGTTATAATTTTTCATCTTTCCCTTGCGGTACTATATCTAT TGCGCCAGGTTTCAATTTCTATCGCCTATACTTTATTTGGGTAAATGGTTTGGC TAAGGTTGTCTGGTAGTAAGGTGGAGTGGGTTTGGGGCTAGGTTTAGCTCAGAG CGGTCAAGTTAAGTTGAAATCTCCTAAGTGTAAGTTGGGTGCTTTGTGTTAAGC TACACTCTGGTTCGTCCAAGTGCACTTTCCAGTACACTTACCATGTTACGACTT GTCTCCTCTATATAAATGCGTAGGGGTTTTAGTTAAATGTCCTTTGAAGTATAC TTGAGGAGGGTGACGGGCGGTGTGTACGCGCTTCAGGGCCCTGTTCAACTAAGC ACTCTACTCTTAGTTTACTGCTAAATCCACCTTCGACCCTTAAGTTTCATAAGG GCTATCGTAGTTTTCTGGGGTAGAAAATGTAGCCCATTTCTTGCCACCTCATGG GCTACACCTTGACCTAACGTCTTTACGTGGGTACTTGCGCTTACTTTGTAGCCT TCATCAGGGTTTGCTGAAGATGGCGGTATATAGGCTGAGCAAGAGGTGGTGAGG TTGATCGGGGTTTATCGATTACAGAACAGGCTCCTCTAGAGGGATATGAAGCAC CGCCAGGTCCTTTGAGTTTTAAGCTGTGGCTCGTAGTGTTCTGGCGAGCAGTTT TGTTGATTTAACTGTTGAGGTTTAGGGCTAAGCATAGTGGGGTATCTAATCCCA GTTTGGGTCTTAGCTATTGTGTGTTCAGATATGTTAAAGCCACTTTCGTAGTCT ATTTTGTGTCAACTGGAGTTTTTTACAACTCAGGTGAGTTTTAGCTTTATTGGG GAGGGGGTGATCTAAAACACTCTTTACGCCGGCTTCTATTGACTTGGGTTAATC GTGTGACCGCGGTGGCTGGCACGAAATTGACCAACCCTGGGGTTAGTATAGCTT AGTTAAACTTTCGTTTATTGCTAAAGGTTAATCACTGCTGTTTCCCGTGGGGGT GTGGCTAGGCTAAGCGTTTTGAGCTGCATTGCTGCGTGCTTGATGCTTGTCCCT TTTGATCGTGGTGATTTAGAGGGTGAACTCACTGGAACGGGGATGCTTGCATGT GTAATCTTACTAAGAGCTAATAGAAAGGCTAGGACCAAACCTATTTGTTTATGG GGTGATGTGAGCCCGTCTAAACATTTTCAGTGTATTGCTTTGAGGAGGTAAGCT ACATAAACTGTGGGGGGTGTCTTTGGGGTTTGGTTGGTTCGGGGTATGGGGTTA GCAGCGGTGTGTGTGTGCTGGGTAGGATGGGCGGGGGTTGTATTGATGAGATTA GTAGTATGGGAGTGGGAGGGGAAAATAATGTGTTAGTTGGGGGGTGACTGTTAA AAGTGCATACCGCCAAAAGATAAAATTTGAAATCTGGTTAGGCTGGTGTTAGGG TTCTTTGTTTTTGGGGTTTGGCAGAGATGTGTTTAAGTGCTGTGGCCAGAAGCG GGGGAGGGGGGGTTTGGTGGAAATTTTTTGTTATGATGTCTGTGTGGAAAGTGG CTGTGCAGACATTCAATTGTTATTATTATGTCCTACAAGCATTAATTAATTAAC ACACTTTAGTAAGTATGTTCGCCTGTAATATTGAACGTAGGTGCGATAAATAAT AGGATGAGGCAGGAATCAAAGACAGATACTGCGACATAGGGTGCTCCGGCTCCA GCGTCTCGCAATGCTATCGCGTGCATACCCCCCAGACGAAAATACCAAATGCAT GGAGAGCTCCCGTGAGTGGTTAATAGGGTGATAGACCTGTGATC		
Human hGIT1_v4	11	prey24365	692	CAAAGCTCCAAAACCTTCTGATTTCTTGACTCTTGAAGGAAGAANCAGTAAAA TAAAGCAGGTGGACAGCGTACTGAAGCATGTGAAGAAGCATCTGCCCCAAAGCA CATGTGAAGGAGCTTATCAGTTGGCTCGTGGGTCAGGAATTCGAATTAGAAAAA ATGGAGTCCATATGCCAGGCTCGAGCAAAGGAGCTTGAAGACTCCTTGCAGCAG	1430	QKLQNLLIS*LLKEEXVK*SRWT AY*SM*RSICPKAHVKELISWLV GQEFELEKMESICQARAKELEDS LQQLLRLQDDHRNLRKWLTNQEE

				CTACTGAGACTCCAGGATGACCATAGAAACCTGAGGAAGTGGTTGACTAATCAA GAAGAGAAATGGAAAGGAACGGAAGAACCAGGGGAGAAAACTGAGCTGTTCTGC CAAGCTTTAGCTAGAAAGAGG		KWKGTEEPGEKTELFCQALARKR
Human hGIT1_v4	11	prey19402	693	CAAGCAGAAAGTGAAGCACCTGCTATATGAGCACCAGAACAACCTGACAGAGAT GAAGGCTGAGGGCACTGTAGTCATGAAGCTGGCACAGAAAGAGCACCGCATACA GGAGAGTGTGCTGCGCAAGGACATGCGGGCACTGAAGGTGGAGCTCAAGGAGCA GGAGCTGGCCAGTGAGGTGGTGGTGAAGAACCTGCGGCTGAAACACACCGAGGA GATCACCAGGATGCGGAATGATTTTGAGAGGCAAGTTCGAGAAATTGAGGCCAA GTATGATAAGAAGATGAAGATGCTGAGGGACGAACTCGACTTGCGGAGAAAGAC TGAGCTCCACGAAGTGGAGGAGAGGAAGAATGGCCAGATCCACACGCTGATGCA GCGCCACGAGGAGGCCTTCACCGACATTAAGAACTACTACAACGACATCACCCT CAACAACCTGGCCCTCATCAACTCCCTCAAGGAGCAGATGGAGGACATGCGGAA GAAGGAGGACCACCTGGAGAGGGAGATGGCAGAGGTGTCTGGGCAGAACAAGCG CCTGGCAGACCCTCTCCAGAAGGCTCGGGAGGAGATGAGCGAGATGCAGAAACA GCTCGCAAACTACGAGAGGGACAAGCAGATCCTGCTTTGCACAAAAGCCCGTTT GAAAGTCAGGGAGAAAGAGCTGAAAGACCTGCAGTGGGAGCATGAAGTGTTAGA GCAGCGATTCACCAAGGTGCAGCAGGAGCGGGACGAGCTCTATCGGAAGTTCAC CGCAGCCATCCAGGAGGTGCAGCAGAAGACAGGGTTCAAGAACCTCGTG	1431	KQKVKHLLYEHQNNLTEMKAEGT VVMKLAQKEHRIQESVLRKDMRA LKVELKEQELASEVVVKNLRLKH TEEITRMRNDFERQVREIEAKYD KKMKMLRDELDLRRKTELHEVEE RKNGQIHTLMQRHEEAFTDIKNY YNDITLNNLALINSLKEQMEDMR KKEDHLEREMAEVSGQNKRLADP LQKAREEMSEMQKQLANYERDKQ ILLCTKARLKVREKELKDLQWEH EVLEQRFTKVQQERDELYRKFTA AIQEVQQKTGFKNLV
Human hGIT1_v4	11	prey1606	694	ATGATGGATGGAAAGAACTCCAGTGGATCCAAGCGTTATAATCGCAAACGTGAA CTTTCCTACCCCAAAAATGAAAGTTTTAACAACCAGTCCCGTCGCTCCAGTTCA CAGAAAAGCAAGACTTTTAACAAGATGCCTCCTCAAAGGGGCGGCGGCAGCAGC AAACTCTTTAGCTCTTCTTTTAATGGTGGAAGACGAGATGAGGTAGCAGAGGCT CAACGGGCAGAGTTTAGCCCTGCCCAGTTCTCTGGTCCTAAGAAGATCAACCTG AACCACTTGTTGAATTTCACTTTTGAACCCCGTGGCCAGACGGGTCACTTTGAA GGCAGTGGACATGGTAGCTGGGGAAAGAGGAACAAGTGGGGACATAAGCCTTTT AACAAGGAACTCTTTTTACAGGCCAACTGCCAATTTGTGGTGTCTGAAGACCAA GACTACACAGCTCATTTTGCTGATCCTGATACATTAGTTAACTGGGACTTTGTG GAACAAGTGCGCATTTGTAGCCATGAAGTGCCATCTTGCCCAATATGCCTCTAT CCACCTACTGCAGCCAAGATAACCCGTTGTGGACACATCTTCTGCTGGGCATGC ATCCTGCACTATCTTTCACTGAGTGAGAAGACGTGGAGTAAATGTCCCATCTGT TACAGTTCTGTGCATAAGAAGGATCTCAAGAGTGTTGTTGCCACAGAGTCACAT CAGTATGTTGTTGGTGATACCATTACGATGCAGCTGATGAAGAGGGAGAAAGGG GTGTTGGTGGCTTTGCCCAAATCCAAATGGATGAATGTAGACCATCCCATTCAT CTAGGAGATGAACAGCACAGCCAGTACTCCAAGTTGCTGCTGGCCTCTAAGGAG C	1432	MMDGKNSSGSKRYNRKRELSYPK NESFNNQSRRSSSQKSKTFNKMP PQRGGGSSKLFSSSFNGGRRDEV AEAQRAEFSPAQFSGPKKINLNH LLNFTFEPRGQTGHFEGSGHGSW GKRNKWGHKPFNKELFLQANCQF VVSEDQDYTAHFADPDTLVNWDF VEQVRICSHEVPSCPICLYPPTA AKITRCGHIFCWACILHYLSLSE KTWSKCPICYSSVHKKDLKSVVA TESHQYVVGDTITMQLMKREKGV LVALPKSKWMNVDHPIHLGDEQH SQYSKLLLASKE
Human hGIT1_v4	11	prey24363	695	CCTGGTACTGATCAAGAAAGAAAGGCAGGCAAACACCATTATTCTTACTTATCT GATTTTGAAACGCCACAGTCTTCTGGCCGATCATCGCTGGTCAGTTCTTCACCT GCAAGTGTTAGGAAAAAAAATCCTAAAAGACNAACTTCAGATGGCCAAGTACAT CACCAAGCCCCTCGGAAACCCAGCCCTAANGGGTCTACCNAACATAAAGGGAGT	1433	PGTDQERKAGKHHYSYLSDFETP QSSGRSSLVSSSPASVRKKNPKR XTSDGQVHHQAPRKPSPXGSTXH KGSXSGIXGPXXLNXXAXLXXEX

				NCNAGTGGNATTTNCGGTCCCNNANCCCTAAATANANNAGCCNCTTTAGNTAAN GAATNCTGNTGTTGTTTNACANTAAACGGNTTNTCTNNNNTTGGTNGGAANNGN NTGTNGTNNNCANTTGCGNTTTNNCCCNNATTAANTNTTNTTTTCCCCNNCCCC GGCNGNCCCGGGGCTGGGGGCGGGGTGNGGGNGANAAGGNGGGCCGCGNGTGGG GGGGGGGNTGGGGGGGGNGCGGGAGGG		XCCXTXNGXSXXGXXXXXXXXAX XPXLXXXFPXPGXPGAGGGVXXX RXAAXGGGXGGGAGG
Human hGIT1_v4	11	prey2180	696	GGCAGACGCATGGGCACATCAAGAAGGCACTCATCCGAAAGACAGAAATGTAGA AAAACTACAAGTCCTGTTAAATTGCATGACAGAGATTTACTATCAGTTCAAAAA AGACAAAGCAGAACGTAGATTAGCTTATAATGAAGAACAAATCCACAAATTTGA TAAGCAAAAACTGTATTACCATGCCACAAAAGCTATGACGCACTTTACAGATGA ATGTGTTAAAAAGTATGAGGCATTTTTGAATAAGTCAGAAGAATGGATAAGAAA GATGCTTCATCTTAGGAAACAGTTATTATCGCTGACTAATCAGTGTTTTGATAT TGAAGAAGAAGTATCAAAATATCAAGAATATACTAATGAGTTACAAGAAACTCT GCCTCAGAAAATGTTTACAGCTTCCAGTGGAATCAAACATACCATGACCCCAAT TTATCCAAGTTCTAACACATTAGTAGAAATGACTCTTGGTATGAAGAAATTAAA GGAAGAGATGGAAGGGGTGGTTAAAGAACTTGCTGAAAATAACCACATTTTAGA AAGGTTTGGCTCTTTAACCATGGATGGTGGCCTTCGCAACGTTGACTGTCTTTA G	1434	ADAWAHQEGTHPKDRNVEKLQVL LNCMTEIYYQFKKDKAERRLAYN EEQIHKFDKQKLYYHATKAMTHF TDECVKKYEAFLNKSEEWIRKML HLRKQLLSLTNQCFDIEEEVSKY QEYTNELQETLPQKMFTASSGIK HTMTPIYPSSNTLVEMTLGMKKL KEEMEGVVKELAENNHILERFGS LTMDGGLRNVDCL*
Human hGIT1_v4	11	prey1410	697	AAAGAAACAGCAGAAGAAGAAACGGAAGGAAGAAAAGGGGGCAGAACCAGAGAC TGGCTCTGCTGTATCTGCAGCCCAATGTCAAGTAGGCCCAACCAGAGAACTGCC AGAATCGGGCATTCAGTTGGGCACTCCTCGGGAGAAAGTTCCAGCTGGTCGGAG TAAGGCCGAACTTCGGGCTGAGCGTCGAGCCAAGCAGGAGGCCGAGCGGGCCCT GAAACAGGCAAGAAAAGGGGAACAAGGAGGACCACCTCCTAAGGCCAGCCCCAG CACAGCTGGAGAAACCCCCTCAGGAGTGAAGCGTCTCCCTGAGTACCCTCAGGT TGATGACCTACTTCTGAGAAGGCTTGTTAAAAAACCAGAGCGTCAACAGGTTCC TACACGAAAGGATTATGGATCCAAAGTCAGTCTCTTCTCTCACCTACCCCAGTA CAGCAGACAAAACTCTCTGACCCAGTTTATGAGCATCCCATCCTCTGTGATCCA CCCAGCCATGGTGCGACTCGGCCTGCAGTACTCCCAGGGCCTGGTCAGTGGCTC CAATGCCCGGTGTATTGCCCTGCTTCGTGCCTTGCAGCAGGTGATTCAGGATTA CACAACACCGCCTAATGAAGAACTCTCCAGGGATCTAGTGAATAAAC	1435	KKQQKKKRKEEKGAEPETGSAVS AAQCQVGPTRELPESGIQLGTPR EKVPAGRSKAELRAERRAKQEAE RALKQARKGEQGGPPPKASPSTA GETPSGVKRLPEYPQVDDLLLRR LVKKPERQQVPTRKDYGSKVSLF SHLPQYSRQNSLTQFMSIPSSVI HPAMVRLGLQYSQGLVSGSNARC IALLRALQQVIQDYTTPPNEELS RDLVNK
Human hGIT1_v4	11	prey4796	698	CTCCATCATCCCTGTGCACAAGCAGACGGAGAATCTGCAGCGGCTGCAGGAGAA TGTTGAGAAGACGCTGTCCTGCCTGGACCATGTCATCAGCTACTACCATGTGGC CAGTGACACTGAGAAGATCATCAGAGAGGGCCCCACAGGTAGGCTGGAAGAGTA CCTGGGAAGCATGGCCAAGATTCAGAAGGCAGTGGAGTATTTCCAGGACAACAG CCCAGACAGCCCGGAACTCAACAAAGTGAAACTGCTCTTTGAGCGCGGGAAGGA GGCCCTGGAGTCCGAATTTCGCAGCCTGATGACGCGGCACAGTAAGGTCGTCTC GCCCGTGCTCATCTTGGATCTGATCAGTGGTGACGATGATCTGGAGGCCCAGGA GGACGTGACCCTGGAGCACCTGCCCGAGAGCGTGCTCCAGGATGTCATTCGCAT CTCCCGCTGGCTGGTGGAATATGGCCGCAACCAAGATTTCATGAACGTCTACTA CCAGATACGCTCCAGCCAGCTGGACCGCTCCATCAAAGGACTGAAGGAGCATTT	1436	SIIPVHKQTENLQRLQENVEKTL SCLDHVISYYHVASDTEKIIREG PTGRLEEYLGSMAKIQKAVEYFQ DNSPDSPELNKVKLLFERGKEAL ESEFRSLMTRHSKVVSPVLILDL ISGDDDLEAQEDVTLEHLPESVL QDVIRISRWLVEYGRNQDFMNVY YQIRSSQLDRSIKGLKEHFHKSS SSSGVPYSPAIPNKRKDTPTKKP VKRPGRDDMLDVETDAYIHCVSA

				CCATAAGAGCAGTTCTTCCTCTGGGGTTCCCTACTCCCCTGCTATCCCCAACAA GAGGAAAGACACACCTACCAAGAAGCCAGTCAAGCGGCCAGGGAGAGATGACAT GCTGGACGTGGAGACCGATGCCTACATCCACTGCGTCAGTGCCTTCGTCAAGCT GGCGCAGAGCGAGTACCAGCTGCTGGCCGACATCATCCCCGAGCACC		FVKLAQSEYQLLADIIPEH
Human hGIT1_v4	11	prey3385	699	TACCACCAATCCTGAGCAAACCCTTCCTGGAACTAATTTGACAGGATTTCTTTC ACCGGTTGACAATCATATGAGGAATCTAACAAGCCAAGACCTACTGTATGACCT TGACATAAATATATTTGATGAGATAAACTTAATGTCATTGGCCACAGAAGACAA CTTTGATCCAATCGATGTTTCTCAGCTTTTTGATGAACCAGATTCTGATTCTGG CCTTTCTTTAGATTCAAGTCACAATAATACCTCTGTCATCAAGTCTAATTCCTC TCACTCTGTGTGTGATGAAGGTGCTATAGGTTATTGCACTGACCATGAATCTAG TTCCCATCATGACTTAGAAGGTGCTGTAGGTGGCTACTACCCAGAACCCAGTAA GCTTTGTCACTTGGATCAAAGTGATTCTGATTTCCATGGAGATCTTACATTTCA ACACGTATTTCATAACCACACTTACCACTTACAGCCAACTGCACCAGAATCTAC TTCTGAACCTTTTCCGTGGCCTGGGAAGTCACAGAAGATAAGGAGTAGATACCT TGAAGACACA	1437	TTNPEQTLPGTNLTGFLSPVDNH MRNLTSQDLLYDLDINIFDEINL MSLATEDNFDPIDVSQLFDEPDS DSGLSLDSSHNNTSVIKSNSSHS VCDEGAIGYCTDHESSSHHDLEG AVGGYYPEPSKLCHLDQSDSDFH GDLTFQHVFHNHTYHLQPTAPES TSEPFPWPGKSQKIRSRYLEDT
Human hGIT1_v4	11	prey4198	700	GGAAGAAAGGAGAAAAGACATAGAAAGACGAGAGGCAGCAAAACAGGAACTTGA ACGACAACGTCGCTTAGAATGGGAGAGAATTCGGCGACAGGAGCTTCTCAATCA AAAGAATAGAGAACAAGAAGAAATTGTCAGGTTAAACTCTAAAAAGAAGAATCT TCATCTTGAGTTGGAAGCACTGAATGGCAAACATCAGCAGATCTCAGGCAGACT TCAGGATGTCCGACTCAAAAAGCAAACTCAAAAGACTGAGCTGGAAGTTCTGGA TAAGCAGTGTGACTTGGAAATTATGGAAATCAAGCAACTTCAACAGGAACTTCA GGAATATCAGAATAAGCTTATCTATCTGGTACCTGAGAAGCAATTATTAAATGA AAGAATTAAAAACATGCAGTTCAGTAACACACCTGATTCAGGGGTCAGTTTACT TCATAAAAAATCATTAGAAAAGGAAGAATTATGCCAAAGACTTAAAGAACAGTT AGATGCTCTTGAAAAAGAAACTGCATCTAAGCTGTCAGAAATGGATTCTTTTAA CAATCAACTAAAGGAACTGAGAGAAACCTACAACACACAGCAGTTAGCCCTTGA ACAGCTTTATAAGATCAAACGTGACAAGTTGAAGGAAATTGAAAGGAAAAGATT AGAACTAATGCAGAAAAAGAAACTAGAAGATGAGGCTGCAAGGAAAGCAAAGC	1438	EERRKDIERREAAKQELERQRRL EWERIRRQELLNQKNREQEEIVR LNSKKKNLHLELEALNGKHQQIS GRLQDVRLKKQTQKTELEVLDKQ CDLEIMEIKQLQQELQEYQNKLI YLVPEKQLLNERIKNMQFSNTPD SGVSLLHKKSLEKEELCQRLKEQ LDALEKETASKLSEMDSFNNQLK ELRETYNTQQLALEQLYKIKRDK LKEIERKRLELMQKKKLEDEAAR KAK
Human hGIT1_v4	11	prey24276	701	GNGNCTGNCAGAGTACATGTGCTGTTGGGCANGCAGATAGCCTGGTCCCCTGNC TATATAGAANCCTTTTCNTNATNNGGGCCGGANTCTGGAGGACNGTGCGGTTCC ATTGCTNGACTAGTNCTGATTGGTATGATANTGGAGAGCTTCGTTGCCCAATGC CNCGTTCCTTTGCTNTTTCTTNTTTTCCCAGAANCGAGATGNTTNAANNTNNGN AGCCTNGCTCCCTCTTNNAACCATNNTNNTGNNGACCCAANNTNCTGACTTGTT TTTAAAACNTTTNTAGGTTGGGACTNNNCTNGNTTGGTTTCNNCTGTTTNGATT NNNAGNATNCNNGGTNCCGGGGCGATNNTGNNNGGNCNTTTTGTNCTNTTTCCT NGCTCNTTTNGCGNGNNGNTTGANGNTNTGTTNTGNTTNCCCCTGNGGGTNCNT TTTNTGGGGGNNGTNN	1439	XXXRVHVLLGXQIAWSPXYIEXF SXXGPXSGGXCGSIAXLVLIGMI XESFVAQCXVPLLFLXFPEXRXX XXXSLAPSXNHXXXDPXX*LVFK TFXGWDXXXLVSXVXIXXXXGXG AXXXGXFVLFPXSFXXXXXXXXX XPLXVXFXGXV
Human hGIT1_v4	11	prey11494	702	ATGGAGAACGGAGCGGTGTACAGCCCCACTACGGAGGAGGACCCGGGCCCCGCC AGAGGCCCCCGGAGCGGCCTCGCTGCCTACTTTTTCATGGGCCGGCTCCCATTG	1440	MENGAVYSPTTEEDPGPARGPRS GLAAYFFMGRLPLLRRVLKGLQL

				CTCCGGCGCGTTCTCAAGGGCTTGCAGCTGTTGCTGTCTCTGCTGGCCTTCATC TGTGAAGAAGTTGTATCACAATGTACTTTATGTGGAGGACTTTATTTTTTTGAG TTTGTAAGCTGCAGTGCCTTTCTTCTGAGTCTCCTTATACTGATTGTGTATTGC ACTCCATTTTATGAGAGAGTTGATACCACAAAAGTAAAATCATCGGATTTTTAT ATTACTTTGGGAACAGGATGTGTGTTTTTGTTGGCATCCATCATTTTTGTTTCC ACACATGACAGGACTTCAGCTGAGATTGCTGCAATTGTGTTTGGATTTATAGCA AGTTTTATGTTCCTACTTGACTTTATCACTATGCTGTATGAAAAACGACAGGAG TCCCAGCTGAGAAAACCTGAAAATACCACTAGGGCTGAAGCCCTCACTGAGCCA CTTAATGCCTAA		LLSLLAFICEEVVSQCTLCGGLY FFEFVSCSAFLLSLLILIVYCTP FYERVDTTKVKSSDFYITLGTGC VFLLASIIFVSTHDRTSAEIAAI VFGFIASFMFLLDFITMLYEKRQ ESQLRKPENTTRAEALTEPLNA*
Human hGIT1_v4	11	prey4384	703	GGAGGCCACCCAGGAGCTGATCGAGGACCTCCGAAAGCAGCTGGAGCACCTGCA GCTCCTCAAGCTGGAGGCCGAGCAGCGGCGGGGCCGCAGCAGCAGCATGGGCCT GCAGGAGTACCACAGCCGCGCCCGGGAGAGCGAGCTGGAGCAGGAGGTCCGCAG GCTGAAGCAGGACAACCGCAACCTGAAGGAGCAGAACGAGGAGCTGAACGGGCA GATCATTACCCTCAGCATCCAGGGCGCCAAGAGCCTCTTCTCCACAGCCTTCTC TGAGTCCCTGGCTGCAGAGATCAGCTCCGTCTCCCGAGATGAGCTCATGGAGGC GATTCAGAAGCAGGAGGAGATCAACTTCCGCCTGCAGGACTACATCGAC	1441	EATQELIEDLRKQLEHLQLLKLE AEQRRGRSSSMGLQEYHSRARES ELEQEVRRLKQDNRNLKEQNEEL NGQIITLSIQGAKSLFSTAFSES LAAEISSVSRDELMEAIQKQEEI NFRLQDYID
Human hGIT1_v4	11	prey4310	704	TGAGCGCATTGAGCTGGGGCTGCTGTATGAGGAGAAGGGGGAACGCAGGGGCCA GGTGCCGTGCAGGTCTGTGTGGGAGTATGTGGACCGGCTGAGCAAGAGGACGCC TGTGTTCCACAATTACATGTATGCGCCCGAGGACGCAGAGGTCCTGCGGCCCTA CAGCAACGTGTCCAACCTGAAGGTGTGGGACTTCTACACTGAGGAGACGCTGGC CGAGGGCCCTCCCTATGACTGGGAACTGGCCCAGGGGCCCCCTGAACCCCCAGA GGAAGAACGGTCTGATGGAGGCGCTCCCCAGAGCAGGCGCCGCGTGGTGTGGCC CTGTTACGACAGCTGCCCGCGGGCCCAGCCTGACGCCATCTCACGCCTGCTGGA GGAGCTGCAGAGGCTGGAGACAGAGTTGGGCCAACCCGCTGAGCGCTGGAAGGA CACCTGGGACCGGGTGAAGGCTGCACAGCGCCTCGAGGGCCGGCCAGACGGCCG TGGCACCCCTAGCTCCCTCCTTGTGTCCACCGCACCCC	1442	ERIELGLLYEEKGERRGQVPCRS VWEYVDRLSKRTPVFHNYMYAPE DAEVLRPYSNVSNLKVWDFYTEE TLAEGPPYDWELAQGPPEPPEEE RSDGGAPQSRRRVVWPCYDSCPR AQPDAISRLLEELQRLETELGQP AERWKDTWDRVKAAQRLEGRPDG RGTPSSLLVSTAP
Human hGIT1_v4	11	prey24315	705	CGCCATTGTTCNTGGGTTTCCTTCCTGAGGCCTGTCTCAAAGTCTTCACAAACC TATCAGNTCAGTTCAGCCTTTGCTGGGCTCAGGCCTCTGAGATACCATGGGGTA CCCGGGGGGGGGGACCCCAGCCTCCCAAGTAGTCTACAGGAGCTTTGGGGGGCA TCTTTGCAAGCCCTTACCCCTGAGTCAGTTCATCCGGCAGCGCTCAGCTCTGCC CCCACCCTGCTGTGGCCCCCAGGTCTCAGCTCCTTCCTTCAGGTCTCCTCAGGG AAGCAGATTTTGAAGATGGCTTGAC	1443	RHCSWVSFLRPVSKSSQTYQXSS AFAGLRPLRYHGVPGGGDPSLPS SLQELWGASLQALTPESVHPAAL SSAPTLLWPPGLSSFLQVSSGKQ ILKMA*
Human hGIT1_v4	11	prey12358	706	CCGAAAACGGTTTCACTTGTTATCTCGCCTACGCAAAGCCGTGAAGCATGCAGA GGAATTGGAACGCTTGTGTAAGAGCAATCGCGTGGATGCCAAGACCAAATTAGA GGCTCAGGCTTACACAGCTTACCTCTCAGGAATGCTACGTTTTGAACATCAAGA ATGGAAAGCTGCCATTGAGGCTTTTAACAAATGCAAAACTATCTATGAGAAGCT AGCCAGTGCTTTCACAGAGGAGCAGGCTGTGCTGTATAACCAACGTGTGGAAGA GATTTCACCCAACATCCGCTATTGTGCATATAATATTGGGGACCAGTCAGCCAT CAATGAACTCATGCAGATGAGATTGAGGTCTGGGGGCACTGAGGTCTCTTGGC	1444	RKRFHLLSRLRKAVKHAEELERL CKSNRVDAKTKLEAQAYTAYLSG MLRFEHQEWKAAIEAFNKCKTIY EKLASAFTEEQAVLYNQRVEEIS PNIRYCAYNIGDQSAINELMQMR LRSGGTEGLLAEKLEALITQTRA KQAATMSEVEWRGRTVPVKIDKV

				TGAAAAATTGGAGGCTTTGATCACTCAGACTCGAGCCAAACAGGCAGCTACCAT GAGTGAAGTGGAGTGGAGAGGGAGAACGGTTCCAGTGAAGATTGACAAAGTGCG CATTTTCTTATTAGGACTGGCTGATAACGAAGCAGCTATTGTCCAGGCTGAAAG CGAAGAAACTAAGGAGCGCCTGTTTGAATCAATGCTCAGCGAGTGTCGGGACGC CATCCAGGTGGTTCGGGAGGAGCTCAAGCCAGATCAGAAACAGAGAGATTATAT CCTTGAAGGAGAGCCAGGGAAGGTGTCTAATCTTCAATACTTGCATAGCTACCT GACTTACATCAAGCTATCAACGGCAATCAAGCGTAATGAGAACATGGCCAAAGG TCTGCAGAGGGCTCTGCTGCAGCAGCAGCCAGAGGATGACAGCAAGCGCTCACC CCGGCCCCAGGACCTGATCCGACTCTATGACATCATCTTACAGAATCTGGTGGA ATTGCTCCAGCTTCCTGGTTTAGAGGAAGACAAAGCCTTCCAGAAAGAGATAGG CCTCAAGACTCTGGTGTTCAAAGCTTACAGGTGTTTTTTCATTGCTCAGTCCTA TGTGCTGGTGAAGAAGTGGAGCGAAGCCCTTGTCCTGTATGACAGAGTCCTGAA ATATGCAAATGAAGTAAATTCTGATGCTGGCGCCTTCAAGAACAGCCTAAAGGA CCTGCCTGATGTGCAAGAGCTCATCACTCAAGTGCGGTCAGAGAAGTGCTCCCT GCAGGCCGCAGCCATCCTTGAGTCAAACGACGCTCATCAAACAGAGACCTCCTC CTCCCAAGTCAAGGACAATAAGCCTCTGGTTGAACGGTTTGAGACATTCTGCCT GGACCCTTCCCTTGTCACCAAGCAAGCCAACCTTGTGCACTTCCCACCAGG		RIFLLGLADNEAAIVQAESEETK ERLFESMLSECRDAIQVVREELK PDQKQRDYILEGEPGKVSNLQYL HSYLTYIKLSTAIKRNENMAKGL QRALLQQQPEDDSKRSPRPQDLI RLYDIILQNLVELLQLPGLEEDK AFQKEIGLKTLVFKAYRCFFIAQ SYVLVKKWSEALVLYDRVLKYAN EVNSDAGAFKNSLKDLPDVQELI TQVRSEKCSLQAAAILESNDAHQ TETSSSQVKDNKPLVERFETFCL DPSLVTKQANLVHFPP
Human hGIT1_v4	11	prey19318	707	ATGTTTTCTCCAAAGAAGCATTCGGTTAGCACAAGTGATAGAAACCAGGAGGAG AGACAATGCATTAAGACTTCATCACTGTTTTTAAACAACCCTGACATTCCAGAA CTCCACAGACCTGTGGTAAAGCAGGTGCAAGAAAAAGTGTTTACTTCAGCTGCT TTTCATGAGCTGGGCCTCCACCCACATTTAATTTCCACAATAAATACGGTCTTA AAAATGTCTAGTATGACCAGTGTTCAGAAGCAAAGTATTCCTGTGTTGCTGGAA GGCAGAGATGCTCTCGTGAGATCCCAGACGGGCTCAGGTAAAACTCTTGCCTAT TGCATCCCTGTGGTCCAGTCCCTTCAAGCAATGGAGTCAAAAATACAGCGCAGT GATGGCCCCTATGCCCTGGTGCTCGTGCCAACGAGAGAGCTAGCTCTACAAAGC TTTGACACTGTCCAGAAACTGCTTAAGCCTTTCACCTGGATTGTGCCTGGAGTG TTAATGGGAGGAGAGAAGAGAAAATCAGAAAA	1445	MFSPKKHSVSTSDRNQEERQCIK TSSLFLNNPDIPELHRPVVKQVQ EKVFTSAAFHELGLHPHLISTIN TVLKMSSMTSVQKQSIPVLLEGR DALVRSQTGSGKTLAYCIPVVQS LQAMESKIQRSDGPYALVLVPTR ELALQSFDTVQKLLKPFTWIVPG VLMGGEKRKSE
Human hGIT1_v4	11	prey3357	708	GTCGGGAGGCGGCCGCGTCAAGAAGGGCGGCGGCAAGAAGAGCGGCAAGAAGAG TTACCTCAGCGGCGGGGCCGGCGCGGCGGGCGGCGGCGGCGCCGACCCGGGCAA CAAGAAGTGGGAGCAGAAGCAGGTGCAGATCAAGACCCTGGAGGGCGAGTTCTC GGTCACCATGTGGTCCTCAGATGAAAAAAAAGATATTGACCATGAGACAGTGGT TGAAGAACAGATCATTGGAGAGAACTCACCTCCTGATTATTCAGAATATATGAC AGGAAAGAAACTTCCTCCTGGAGGAATACCTGGCATTGACCTCTCAGATCCCAA ACAACTGGCAGAATTTGCTAGAATGAAGCCAAGAAAAATTAAAGAAGATGATGC TCCAAGAACAATAGCTTGCCCTCATAAAGGCTGCACAAAGATGTTCAGGGATAA CTCGGCCATGAGAAAACATCTGCACACCCACGGTCCCAGAGTCCACGTCTGTGC AGAATGTGGCAAAGCTTTTGTTGAGAGTTCAAAACTAAAAC	1446	SGGGRVKKGGGKKSGKKSYLSGG AGAAGGGGADPGNKKWEQKQVQI KTLEGEFSVTMWSSDEKKDIDHE TVVEEQIIGENSPPDYSEYMTGK KLPPGGIPGIDLSDPKQLAEFAR MKPRKIKEDDAPRTIACPHKGCT KMFRDNSAMRKHLHTHGPRVHVC AECGKAFVESSKLK
Human hGIT1_v4	11	prey1642	709	ATGTCCTTTCCTAAGGCGCCCTTGAAACGATTCAATGACCCTTCTGGTTGTGCA CCATCTCCAGGTGCTTATGATGTTAAAACTTTAGAAGTATTGAAAGGACCAGTA	1447	MSFPKAPLKRFNDPSGCAPSPGA YDVKTLEVLKGPVSFQKSQRFKQ

				TCCTTTCAGAAATCACAAAGATTTAAACAACAAAAAGAATCTAAACAAAATCTT AATGTTGACAAAGATACTACCTTGCCTGCTTCAGCTAGAAAAGTTAAGTCTTCG GAATCAAAGGAATCTCAAAAGAATGATAAAGATTTGAAGATATTAGAGAAAGAG ATTCGTGTTCTTCTACAGGAACGTGGTGCCCAGGACAGCCGGATCCAGGATCTG GAAACTGAGTTGGAAAAGATGGAAGCAAGGCTAAATGCTGCACTAAGGGAAAAA ACATCTCTCTCTGCAAATAATGCTACACTGGAAAAACAACTTATTGAATTGACC AGGACTAATGAACTACTAAAATCTAAGTTTTCTGAAAATGGTAACCAGAAGAAT TTGAGAATTCTAAGCTTGGAGTTGATGAAACTTAGAAACAAAAGAG		QKESKQNLNVDKDTTLPASARKV KSSESKESQKNDKDLKILEKEIR VLLQERGAQDSRIQDLETELEKM EARLNAALREKTSLSANNATLEK QLIELTRTNELLKSKFSENGNQK NLRILSLELMKLRNKR
Human hGIT1_v4	11	prey2429	710	CCCAGATTTCAGGTTCCCCATGGCAGACGGCCACACAGACTCCTACAGCACCAG TGCAGTGCTGCGGCGCCCACAGAAAGGCCGGCTGGCAGCCCTGCGAGATGAGCC TTCCAAGGTACAAACTCTTAATGAGCAGGATTGGGAACGTGCCCAGCAAGCTAG TGTCTTGGCAAATGTAGCACAAGCATTCGAGAGTGATGCTGACGTGTCTGATGG TGAAGATGACAGGGACACTCTCCTCAGCTCAGTTGACCTGCTATCGCCCAGCGG GCAGGCCGACGCGCACACACTAGCCATGATGCTTCAGGAGCAGCTGGACGCCAT CAACAAAGAGATCAGGTTGATTCAGGAAGAAAAAGAAAATACAGAGCAGCGG	1448	PDFRFPMADGHTDSYSTSAVLRR PQKGRLAALRDEPSKVQTLNEQD WERAQQASVLANVAQAFESDADV SDGEDDRDTLLSSVDLLSPSGQA DAHTLAMMLQEQLDAINKEIRLI QEEKENTEQR
Human hGIT1_v4	11	prey133	711	GGCTCCTAATCCATTACTTTTAAGTTCTACTACAGAACTAATCGAAGAAATTTC TGAATCTGTTGGAAAGAACCAGTTTACTTCTGAAAGTACCCACTTGAACGTTGG TCATAGGTCAGTTGGTCATAGTATAAGTATTGAATGTAAAGGGATTGATAAAGA GGTAAATGATTCAAAAACTACCCATATAGATATTCCAAGAATAAGCTCTTCCCT TGGAAAAAAGCCAAGTTTGACTTCTGAATCCAGCATTCATACTATTACTCCTTC AGTTGTTAACTTCACTAGTTTATTTAGTAATAAGCCTTTTTTAAAACTGGGTGC AGTATCTGCATCAGACAAACACTGCCAAGTTGCTGAAAGCCTAAGTACTAGTTT GCAGTCCAAACCATTAAAAAAAAGAAAAGGAAGAAAACCTCGGTGGACTAAAGT GGTGGCAAGAAGCACATGCCGGTCTCCAAAAGGGCTAGAATTAGAAAGATCAGA GCTTTTTAAAAACGTTTCATGTAGCTCACTATCAAATAGTAATTCTGAGCCAGC CAAGTTTATGAAAAACATTGGACCCCCTTCATTTGTAGATCATGACTTCCTTAA ACGCCGATTGCCAAAGTTGAGCAAATCCACAGCTCCATCTCTTGCTCTCTTAGC TGATAGTGAAAAACCATCTCATAAGTCTTTTGCTACTCACAAACTATCCTCCAG TATGTGTGTCTCTAGTGACCTTTTGTCTGATATTTATAAGCCCAAAAGAGGAAG GCCTAAATCTAAGGAGATGCCTCAACTGGAAGGGCCACCTAAAAGGACTTTAAA AATCCCTGCTTCTAAAGTGTTTTCTTTACAGTCTAAGGAAGAACAAGAACCCCC	1449	APNPLLLSSTTELIEEISESVGK NQFTSESTHLNVGHRSVGHSISI ECKGIDKEVNDSKTTHIDIPRIS SSLGKKPSLTSESSIHTITPSVV NFTSLFSNKPFLKLGAVSASDKH CQVAESLSTSLQSKPLKKRKGRK PRWTKVVARSTCRSPKGLELERS ELFKNVSCSSLSNSNSEPAKFMK NIGPPSFVDHDFLKRRLPKLSKS TAPSLALLADSEKPSHKSFATHK LSSSMCVSSDLLSDIYKPKRGRP KSKEMPQLEGPPKRTLKIPASKV FSLQSKEEQEP
Human hGIT1_v4	11	prey4036	712	CCCTGGAGTCACCCAGAAACTGGGACTGCAGTACATGGAGCTCATCCCCAAGGA GAAGCAGCCAGTGACAGGCACAGAGGGTGCCTTTTACCGCCGCCGCCAGCTCAT GCACCAGCTCCCCATCTATGACCAGGATCCCTCGCGCTGCCGTGGACTTTTGGA GAATGAGTTGAAACTGATGGAAGAATTTGTCAAGCAATATAAGAGCGAGGCCCT CGGCGTGGGAGAAGTGGCCCTCCCGGGGCAGGGTGGCTTGCCCAAGGAGGAGGG GAAGCAGCAGGAAAAGCCAGAGGGGG	1450	PGVTQKLGLQYMELIPKEKQPVT GTEGAFYRRRQLMHQLPIYDQDP SRCRGLLENELKLMEEFVKQYKS EALGVGEVALPGQGGLPKEEGKQ QEKPEG
Human hGIT1_v4	11	prey24352	713	ANAANATTTTAGNCCAGGGNNCGGNGGGTTCTNTGNCTGTAATCCCAGNNNTAG NNAAGGNNNCAANGNGNGCNNGATCNCATAAGNTNAGGNANTTNGAAACCAAGC	1451	XXF*XRXRXVLXL*SQX*XRXQX XXDXIXXGXXKPSLTXPX*XIHL

				CTGACCNAACCATNNTGAANAATCCATCTCTACTCCANAAATNCAAAAAANNAA CTGGGTGTGNAAGGCACACCGCCTGNAATCNNNAGCNACTCNNTAGGNTNAGCC AGGNAGGATCTNTTGAATCCTGGNAGNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNAGATTATTTTGAAATAAAATTAAATATGTATTTAGA		YSXNXKXXLGVXGTPPXIXSXSX GXARXDLLNPGXXXXXXXXXXX XXXXXXXXXXXXXXXXXRLF*N KIKYVFR
Human hGIT1_v4	11	prey24354	714	GANGCCCGAAGGCAGGCAGGGATCCAGAAGAGGAAGGAACTGNTCCTCTCTTCT TTGAAGCCCTTCAGCTTCCTGGAGANGGAGGAGCAGCTAAAGGAAGCTGCTCGA CAGAGAGACTTGGCAGNCACAGNTGAAGCCAAGATCTCCAAGCAGAAGGCCACC AGTAAGGATTCCCAAGTCCATTCTGGAGCCAGCCCTTGGGGATAAACTCCAGGA AGCTGAGCTCTTCAGGAAAATTCGCATTCCAAATGAGAGCCCTGGACATGCTCC AGATGGCCTCTTCCCCTATCGCCTCCTATAGTAACCGGGCTAACCCACAGGCCC CGCACAGCCACCCGAACCCAGCAGGAAAAGCTTGGGTTTCTGCACACTAACTTC AGATTCCAGCCTCGGGGGAATCCTGTGGTCCCTGACTATGAGGGCCTTTACAAG GCCTTCCAGAGAAGAGCAGCCAAAAGAAGAGAAACCCAAGAGGCCACTCGCAAC AAGCCCTTCTTGCTGAGGACCGCCAACCTGCGCCACCCTCAGCGGCCNTGTGAT GCTGCCNCCNCCGGAAGGAGGCAGGATTCCCCTCANCCNCC	1452	XARRQAGIQKRKELXLSSLKPFS FLEXEEQLKEAARQRDLAXTXEA KISKQKATSKDSQVHSGASPWG* TPGS*ALQENSHSK*EPWTCSRW PLPLSPPIVTGLTHRPRTATRTQ QEKLGFLHTNFRFQPRGNPVVPD YEGLYKAFQRRAAKRRETQEATR NKPFLLRTANLRHPQRPCDAAXX GRRQDSPXP
Human hGIT1_v4	11	prey24356	715	TCAGNANCCAGANNCAAANTTGTTTTNANCAAGCACANNGTGATGTCCATGNAA ANAGTGTTNTANGCCNTNGNGGGCGTANNNNCNAGCATAGAGGAGNCGAAACTG TAACNAGGNTNNTCATATNGTGCATTCATANGTCATGTCNNGTANTNATAGGNT GTGNANNNTNNATANNATCAATGNGAGGCTCTGTGCAGGANGTAGCNCGTAGAT GAGAAAGTTCGGTATGAAANANANNACATCNTCGCAGCATCATCANGTTCATCT CCTNNNGGTNCANGCTCNGGGAGNNGCCCNCAAANTNNAACATGTGTGGNTCAN ANTNNGCAGCNTCCATNCACCGCNNTNN	1453	SXXRXKXVXXKHXVMSMXXVXXA XXGVXXSIEEXKL*XGXSYXAFI XHVXXX*XVXXXXXQXEALCRX* XVDEKVRYEXXXIXAASSXSSPX GXXSGXXPQXXTCVXXXXQXPXT AX
Human hGIT1_v4	11	prey9444	716	GATCTCTGGGAAGCTCAGCGCCGCATCCACCTGGCTGGAGGATGAGGGTGTTGG AGCCACCACAGTGATGTTGAAGGAGAAGCTGGCTGAGCTGAGGAAGCTGTGCCA AGGGCTGTTTTTCGGGTAGAGGAGCGCAAGAAGTGGCCCGAACGGCTGTCTGC CCTCGATAATCTCCTCAACCATTCCAGCATGTTCCTCAAGGGGGCCCGGCTCAT CCCAGAGATGGACCAGATCTTCACTGAGGTGGAGATGACAACGTTAGAGAAAGT CATCAATGAGACCTGGGCCTGGAAGAATGCAACTCTGGCCGAGCAGGCTAAGCT GCCCGCCACAGAGAAGCCTGTGTTGCTCTCAAAAGACATTGAAGCTAAGATGAT GGCCCTGGACCGAGAGGTGCAGTATCTGCTCAATAAGGCCAAGTTTACCAAGCC CCGGC	1454	ISGKLSAASTWLEDEGVGATTVM LKEKLAELRKLCQGLFFRVEERK KWPERLSALDNLLNHSSMFLKGA RLIPEMDQIFTEVEMTTLEKVIN ETWAWKNATLAEQAKLPATEKPV LLSKDIEAKMMALDREVQYLLNK AKFTKPR
Human hGIT1_v4	11	prey24237	717	TCTCTTGGTGTCCCCCAAAGGAGATGCTCACACCATCCTAAAGGGCCAGTTCCT CTTCTTTGCCTCTTCACATCTAACATTCAATTTCAGCAAAAAGTGGATGACTGT GAGCGGTGCCGGGAATTTTTCAACAAAGAAGGGCGTGTAAAAGGCATAAGCTCA ACCAAGGAGGTTTTAGATGAGGACACGGATGAAGAGAAAGAGACGCTCAAGAAC CAGCTGAGAGAAATGGAGCTAGAACTGGCACAGACCAAACTCCAGCTGGTGGAG GCCGAGTGTNAGATACAGGTAACAGNNGGNGAGCTCANACATGTGCCTGCGGGC TGGGTTTGCTGNTGTGCACTNGNNACCCNGGNAATTGTGTTTNTNGTTTNGNGN	1455	SLGVPQRRCSHHPKGPVPLLCLF TSNIQFQQKVDDCERCREFFNKE GRVKGISSTKEVLDEDTDEEKET LKNQLREMELELAQTKLQLVEAE CXIQVTXGELXHVPAGWVCXCAL XTXXIVFXVXXXGXXXXXWGXX

				NTNGGCGNGCNNNGNGNGGNGTGGGGGNGGGNGG		
Human hGIT1_v4	11	prey4017	718	TGTGAATGAGGAAAGCCGAAGGTCCTTGAACAGAAGGCATGCTGAGTTGGCACC TCTTGCAGCCATTTACCAAGAAACTCAGGAGACTGAACAAGCAATTGAAGAATT AGGATCAATGTGTAAAAGCCTAAATAAACGAGATGAAAAGCAGTTACTAGAACT TGCACTGGAAGAAAGGCAAACCATTGATCAAAAAATCAACATGTTGTACAATGA GCTTTTCCAGAGCCTTGTGCCAAAGGAGAAATATGACAAAAATGATGTTATTTT AGAGGTGACAGCTGGAAGGACTACTGGAGGTGACATCTGCCAACAATTTACCCG AGAAATATTTGACATGTACCAGAATTATTCGTGCTATAAACACTGGCAATTTGA ACCTCTGAATTATACACCAGCAGATTATGGTGGACTACATCATGCAGCCGCCCG AATTTCCGGTGACGGTGTCTATAAGCACTTGAAGTATGAGGGTGGATTCACCG AGTTCAGCGCATCCCCGAGGTGGGCCTGTCCTCAAGGATGCAGCGCATTCACAC AGGAACGATGTCGGTTATTGTCCTTCCTCAGCCAGATGAGGTGGATGTGAAATT GGACCCCAAGGATTTGCGAATAGATACATTTCGAGCCAAAGGAGCAGGAGGGCA GCATGTTAATAAAACTGATAGTGCCGTCAGACTTGTCCACATCCCCACAGGGCT AG	1456	VNEESRRSLNRRHAELAPLAAIY QETQETEQAIEELGSMCKSLNKR DEKQLLELALEERQTIDQKINML YNELFQSLVPKEKYDKNDVILEV TAGRTTGGDICQQFTREIFDMYQ NYSCYKHWQFEPLNYTPADYGGL HHAAARISGDGVYKHLKYEGGIH RVQRIPEVGLSSRMQRIHTGTMS VIVLPQPDEVDVKLDPKDLRIDT FRAKGAGGQHVNKTDSAVRLVHI PTGL
Human hGIT1_v4	11	prey17402	719	ATGTTTGTAATGAGTGCGGCAAAGCCTTTCGTCGGAGTTCCACTCTTGTTCAGC ATCGAAGAGTTCACACTGGGGAGAAGCCCTACCAGTGCGTTGAATGTGGGAAAG CTTTCAGCCAGAGCTCCCAGCTCACCCTACATCAGCGAGTTCACACTGGAGAGA AGCCCTATGACTGTGGTGACTGTGGGAAGGCCTTCAGCCGGAGGTCAACCCTCA TTCAGCATCAGAAAGTTCACAGCGGAGAGACTCGTAAGTGCAGAAAACATGGTC CAGCCTTTGTTCATGGCTCCAGCCTCACAGCAGATGGACAGATTCCCACTGGAG AGAAGCACGGCAGAGCCTTTAACCATGGTGCAAATCTCATTCTGCGCTGGACAG TTCACACTGGTGAGAAATCCTTTGGATGTAATGAATATGGAAAAGCTTTCAGTC CCACCTCACGACCCACTGAAGATCAGATAA	1457	MFVMSAAKPFVGVPLLFSIEEFT LGRSPTSALNVGKLSARAPSSPY ISEFTLERSPMTVVTVGRPSAGG QPSFSIRKFTAERLVSAENMVQP LFMAPASQQMDRFPLERSTAEPL TMVQISFCAGQFTLVRNPLDVMN MEKLSVPPHDPLKIR*
Human hGIT1_v4	11	prey19142	720	GTGGAATCAGGAAAGTAGTTCTCCACTCTCAAATGCTTGTTCTGACCTAGTCAC TGTGATACCATCACTGCCATCATATTGTTCTTCAGAGTGCCAAACTTTCGCAAA AATAAATCATTCAAATGGCACTCAAGCAGTTGCCCGGCAAGATGCGACATTATA TTGCACCCAAAGAAGTCCTGTTTGTGAAGAAAGTTATCCGTCTGTGACTCTAAG AACTGCTGAAGAAGAATCAGTTCCCTTATGGAAAAGAGGTCCTAATGTCCTGCA TCAAAATAAGAGGGCTACAGGGTCTACTGTTATGAGAAGAAAACGAATTGCTGA AACTAAGCGGAGAAATATTTTAGAGCAGAAAAGACAAAACCCTGGATCTGTAGG ACAGAAGTACAGTGAGCAAATTAATAATTTTGGACAAAGTGTCCTGCTAAGTTC AAGTGAGCCAAAACAAACTACAAGGGGTACTTCTTATATTGAAGAAGTTTCAGA TAGTACTTCTGAGTTTTTGATGGCTGAAAACTTAGTGAAAGCATCAGTGCCGGA GGATGAGATTCTGACTGTCTTGAATAGCAAACAGATACAGAAATCAAATCTACC TTTAAATAAAACTCAACAATTCAACATCTGCACACTGTCAGCTGAAGAACAGAA GATCCTAGAGTCCCTTAATGATCTCAGTGAAAGACTACATTATATACAAGAATC CATTTGCAAAAAC	1458	WNQESSSPLSNACSDLVTVIPSL PSYCSSECQTFAKINHSNGTQAV ARQDATLYCTQRSPVCEESYPSV TLRTAEEESVPLWKRGPNVLHQN KRATGSTVMRRKRIAETKRRNIL EQKRQNPGSVGQKYSEQINNFGQ SVLLSSSEPKQTTRGTSYIEEVS DSTSEFLMAENLVKASVPEDEIL TVLNSKQIQKSNLPLNKTQQFNI CTLSAEEQKILESLNDLSERLHY IQESICKN
Human	11	prey24241	721	AATACAAAAGAAAATTTAAATGATGTGGATTATGATGATGTCCCTTCAGAAGAT	1459	NTKENLNDVDYDDVPSEDRKIGE

hGIT1_v4				AGAAAAATCGGAGAAAATTATAGCAAAATGGATGGGCCAGAAGTAATGATTGAA CAGCCAATTCCCATGTCCAAAGAGTGTACATTTCAGACATATTTGACAATGCAG ACAATTGAGTCTACAGTGGATCGAAAAAACAATCTCAAAGATCTACAAGAAAGT ATTGATACTTTGATTGGAAATCTGGAACGTGAGCTCAACAAAAACAAGCTTAAT ATGAGTTTTTGAGATTGAGGGTTTTTTTTGTAATGTCTTAAAGTTTCAAATCT GTTTTTGTTTTATTTTCTTATACCACCC		NYSKMDGPEVMIEQPIPMSKECT FQTYLTMQTIESTVDRKNNLKDL QESIDTLIGNLERELNKNKLNMS F*D*GFFFVMS*SFKSVFVLFSY TT
Human hGIT1_v4	11	prey4031	722	GCATGATCCATCAGCGGTTGCAGTTGCTGGAAGTTCATCAGCAGAGGAAATGGT CACTCTCTTGGTTCAGGCGGGCCTCTTTGACACTGCCATATCACTCTGTCAGAC TTTTAAGCTTCCCTTAACGCCAGTCTTTGAAGGGCTTGCCTTCAAATGCATCAA ATTGCAATTTGGAGGAGAGGCAGCACAAGCAGAAGCCTGGGCCTGGCTAGCAGC CAATCAGCTCTCATCTGTCATCACTACTAAGGAGTCTAGTGCTACAGATGAAGC ATGGCGACTATTATCCACTTACCTGGAGAGGTACAAAGTCCAGAATAACTTGTA TCACCACTGTGTAATCAACAAGCTCTTGTCTCATGGAGTGCCTCTGCCTAATTG GCTTATAAACAGTTACAAGAAGGTTGATGCTGCTGAATTGCTTCGTTTATACTT AAACTATGACCTTTTAGAAGAAGCTGTGGATTTGGTGTCAGAATATGTGGATGC TGTATTGGGAAAAGGACATCAATACTTCGGAATTGAGTTTCCACTGTCCGCAAC AGCCCCAATGGTGTGGCTTCCATACTCCTCTATTGATCAGCTTCTCCAAGCTCT GGGAGAGAACAGTGCCAACAGTCACAACATCGCACTGTCCCAGAAAATACTTGA CAAATTGGAGGACTACCAGCAAAAAGTTGATAAGGCAACACGGGATTTATTATA TCGTCGGACCTTGTGATTTGGATTGTCACCTAGCCTTTGTAACCGCTTGGTGCC TCTTAGGACTTAAGACTACCCTACAGGAACCCTGTACTCAAGGCCGATTTTTGT AACTGTAAATGATGTGTACAACATTCAAGTCTGCATTCTGCACAAGATAGGAGG GCGGAAGAGTCAGAGGACCCTGTGCTTGCTGGTGGTGCTAACACAATTTCTGGT GTTCAACCTTGGTCTCAAATAGCTGCTTTTGTATATGATTCACGAGCTTTTTTA GAGTTTATATTTTTTAAACTACCGAAGACATTCATTATCTGCAAATTAAGACT CACCTTCACTTTCCAAAATAGCTGAGGGTTGTTGGCTTGTTGTAGCTGACCACC AAAAGCAGTCACTGCAAATCTTTTAATTCTTCCCTATCACCTTTTGTATTTTAA TGCAATTATTTGGTCCAGAACTGACCTGTATTTTCTGTATTGTACACAAAAGC TAATAATTTTGTGTACTTTTTATTTATTTTGGAGGTTTTATATGATCTTCAATT GAGTATTAAATAATTTGCCTAGATTAAGCCTAAAATGATGACCAGCTAATTAAA GAAGATATTTTGAATCTGGTTCTGAGCTAAAGTTGAGTAAATTCTTAGCTAAGA AAAAATTGGAAATCCATCATCTATATTAGCAACAGATTCTCAGAGTAAATTGTT AACTTCTATGATTTATGATAATCAAGCTGGACTTGATCATACAAGTTAGTCTCA TAATGTATTGGACCAAAATGTAAACTTCATTGGTCAGATTTAGAAGCATTCATG CTCACAAGTTTTGGGAAAGTGAAAAATAATAAAATCATCTTGGATTTTATTCTG TATATTAAAATTTATCTTTTAAGGAAACAATCTGTATACTACTTGCTTGTATAG CCTTTTGACCCTTCTTGAGTTTTTCAGAAGCCTTTAATTTTTATACTTTCAATA CCATATTTACATTATATACTTTAATTAACAAAAAAAAAAAAAAAAAAAA	1460	A*SISGCSCWKFISRGNGHSLGS GGPL*HCHITLSDF*ASLNASL* RACLQMHQIAIWRRGSTSRSLGL ASSQSALICHHY*GV*CYR*SMA TIIHLPGEVQSPE*LVSPLCNQQ ALVSWSASA*LAYKQLQEG*CC* IASFILKL*PFRRSCGFGVRICG CCIGKRTSILRN*VSTVRNSPNG VASILLY*SASPSSGREQCQQSQ HRTVPENT*QIGGLPAKS**GNT GFIISSDLVIWIVT*PL*PLGAS *DLRLPYRNPVLKADFCNCK*CV QHSSLHSAQDRRAEESEDPVLAG GANTISGVQPWSQIAAFVYDSRA FLEFIFF*TTEDIHYLQIKTHLH FPK*LRVVGLL*LTTKSSHCKSF NSSLSPFVF*CNYFGPELTCIFC IVHKS**FCVLFIYFGGFI*SSI EY*IICLD*A*NDDQLIKEDILN LVLS*S*VNS*LRKNWKSIIYIS NRFSE*IVNFYDL**SSWT*SYK LVS*CIGPKCKLHWSDLEAFMLT SFGKVKNNKIILDFILYIKIYLL RKQSVYYLLV*PFDPS*VFQKPL IFILSIPYLHYIL*LTKKKKKK
Human	11	prey24248	723	AATATNTTAAACGANANCNNNAAGGANNGCGGGCAGNACCGGCGGGCTGCTGGG	1461	NXLNXXXKXXGQXRRAAGVQARA

hGIT1_v4				GTTCAAGCACGTGCCGACTTNTTACTGATGACNANNGNGNGTANGACTNNGTAT AGCNTGCATCCCNNCTCTGCNCTGNNCGNNGGNCNTCCGANNCACNCACANTNT NNNNNNANTNGTANNNGTNTGTTACNTGGTNGGTCCAAAGAANTCTGTGNTTAG CAAACTGCTTCATTGAGNNGGTNCANAGAATGATGNTGCNNNCTNTACCAANCT GNGANNAAAGATTGGGTGTATGAAAGCTACTGACACTGCCACCTTAAGGAATGT CATAAAAGGNTTCTTNCCTGTGATTAANCNNTAAATNAGCTTGNNGAGCCTGAN GGNCANCAACCNATTTGTTACAANGGCGTNAACGAGNANNAGCTNNANNNGTTN NCTGANACTGANGGANAANCNNANNGACNNGACCNAANAGGTCAANCTGGTGGN CAAANTTNNNCACAAC		DXLLMTXXXXTXYSXHPXSALXX GXPXHXXXXXXXXXLXGXSKEX CX*QTASLXXXXE*XCXLYQXXX KDWVYESY*HCHLKECHKRXLXC D*XXNXLXEPXGXQPICYXGVNE XXLXXXXXTXGXXXXXDXXGQXG GQXXXQ
Human hGIT1_v4	11	prey4060	724	TGTGCTCCCATTTTTTGGTTTGGGACAAATGTATATTTATCGAGGTGACAAAGA AAATGCATCTCAGTGCTTTGAGAAGGTTTTGAAAGCTTATCCTAATAATTACGA AACTATGAAAATTCTCGGCTCTCTCTATGCTGCCTCAGAAGATCAAGAAAAACG AGATATTGCCAAGGGCCATTTGAAGAAGGTCACAGAACAGTATCCCGATGATCT TGAAGCTTGGATTGAATTGGCACAAATCTTAGAACAGACTGATATACAGGGTGC CCTTTCAGCCTATGGAACAGCAACACGAATCCTTCAGGAGAAAGTGCAGGCCGA TGTTCCTCCAGAGATTCTCAATAATGTGGGTGCCCTCCATTTTAGACTTGGAAA CCTAGGGGAGGCTAAGAAATATTTTTTGGCGTCATTGGACCGTGCAAAAGCAGA AGCGGAACACGATGAGCATTACTATAACGCCATTTCCGTTACCACGTCATATAA TCTCGCCAGGCTATATGAGGCGATGTGTGAATTCCATGAAGCAGAAAAACTGTA TAAAAACATCTTACGCG	1462	VLPFFGLGQMYIYRGDKENASQC FEKVLKAYPNNYETMKILGSLYA ASEDQEKRDIAKGHLKKVTEQYP DDVEAWIELAQILEQTDIQGALS AYGTATRILQEKVQADVPPEILN NVGALHFRLGNLGEAKKYFLASL DRAKAEAEHDEHYYNAISVTTSY NLARLYEAMCEFHEAEKLYKNIL R
Human hGIT1_v4	11	prey19163	725	ATGGCAGCGGCTGTGCCGAGGCGCCCAACTCAGCAGGGCACTGTGACCTTTGAA GATGTGGCTGTGAACTTTTCCCAGGAGGAGTGGTGTCTTCTTAGTGAGGCTCAG AGGTGCTTGTACCGTGATGTGATGCTAGAGAACCTGGCTCTCATATCCTCGCTG GGTTGTTGGTGTGGATCAAAAGATGAGGAGGCACCTTGTAAGCAGAGAATTTCT GTACAAAGAGAGTCTCAGAGCAGGACTCCTAGGGCAGGTGTTTCTCCTAAGAAG GCTCACCCCTGTGAAATGTGTGGCCTCATCTTGGAGGATGTTTTTCACTTTGCT GACCACCAGGAAACTCATCACAAGCAGAAGCTGAACAGGAGTGGAGCATGTGGA AAAAACTTGGATGACACTGCATACCTTCATCAGCACCAGAAGCAGCATATTGGA GAGAAATTCTACAGAAAGAGTGTCAGAGAAGCATCGTTTGTAAAGAAACGTAAG CTCAGGGTGTCACAGGAGCCATTTGTCTTCCGCGAGTTTGGGAAGGACGTTCTG CCCAGTTCAGGATTGTGCCAAGAAGAAGCTGCTGTAGAGAAGACAGACAGTGAA ACTATGCATGGCCCACCCTTTCAGGAGGGAAAAACTAATTACAGTTGTGGAAAA CGCACAAAAGCCTTCAGCACCAAACACTCAGTTATTCCACACCAGAAACTTTTC ACTAGAGATGGATGTTATGTGTGCAGTGATTGTGGAAAATCCTTTAGCAGATAT GTCAGCTTCAGTAATCATCAGCGAGATCACACTGCAAAAGGACCTTATGATTGT GGAGAGTGTGGGAAATCTTATAGTCGAAAGAGCAGCCTTATTCAACATCAGCGA GTCCACACTGGACAGACAGCTTATCCCTGTGAGGAGTGCGGGAAATCTTTTAGT CAGAAGGGCAGCCTTATTAGCCATCAGCTTGTTCACACTGGAGAAGGGCCTTAT GAGTGTAGAGAATGTGGGAAATCTTTTGGTCAAAAGGGTAACCTCATTCAACAT	1463	MAAAVPRRPTQQGTVTFEDVAVN FSQEEWCLLSEAQRCLYRDVMLE NLALISSLGCWCGSKDEEAPCKQ RISVQRESQSRTPRAGVSPKKAH PCEMCGLILEDVFHFADHQETHH KQKLNRSGACGKNLDDTAYLHQH QKQHIGEKFYRKSVREASFVKKR KLRVSQEPFVFREFGKDVLPSSG LCQEEAAVEKTDSETMHGPPFQE GKTNYSCGKRTKAFSTKHSVIPH QKLFTRDGCYVCSDCGKSFSRYV SFSNHQRDHTAKGPYDCGECGKS YSRKSSLIQHQRVHTGQTAYPCE ECGKSFSQKGSLISHQLVHTGEG PYECRECGKSFGQKGNLIQHQQG HTGERAYHCGECGKSFRQKFCFI NHQRVHTGERPYKCGECGKSFGQ KGNLVHHQRGHTGERPYECKECG KSFRYRSHLTEHQRLHTGERPYN

				CAGCAAGGTCACACTGGAGAGAGAGCTTATCACTGTGGGGAATGTGGGAAATCT TTTCGTCAGAAGTTCTGCTTTATTAACCATCAGCGTGTTCACACTGGAGAAAGG CCTTACAAGTGTGGAGAATGTGGGAAATCTTTTGGTCAAAAGGGCAACCTCGTT CACCATCAGCGAGGTCATACTGGAGAAAGGCCCTATGAGTGCAAGGAATGTGGG AAATCATTTAGGTACAGATCCCACCTCACTGAACACCAGAGACTTCACACTGGG GAAAGACCTTACAATTGTAGGGAATGTGGGAAATTATTTAACAGGAAGTATCAT CTTCTAGTTCATGAGAGAGTTCACACTGGAGAAAGGCCATATGCGTGTGAGGTA TGTGGGAAATTATTTGGCAATAAGCACAGCGTGACTATACATCAGAGGATTCAC ACTGGAGAAAGGCCGTATGAATGCAGTGAATGTGGGAAATCATTTCTTTCCAGC TCTGCGCTTCATGTTCATAAAAGAGTTCATTCTGGACAAAAGCCTTATAAGTGC AGTGAATGTGGAAAATCCTTTTCTGAATGTTCCAGTCTCATTAAACACAGGAGA ATTCACACTGGAGAAAGGCCTTATGAATGCACCAAATGTGGAAAAACATTTCAG CGAAGCTCTACCCTCCTTCATCATCAGAGTTCACACAGGAGAAAGGCCTTATGA		CRECGKLFNRKYHLLVHERVHTG ERPYACEVCGKLFGNKHSVTIHQ RIHTGERPYECSECGKSFLSSSA LHVHKRVHSGQKPYKCSECGKSF SECSSLIKHRRIHTGERPYECTK CGKTFQRSSTLLHHQSSHRRKAL *
Human hGIT1_v4	11	prey4078	726	CGAGGAGAGGAAAAAACAGCTGAGCTTCATTAGCCCCCCTACACCTCAGCCAAA GACTCCTTCTTCCTCCCAACCAGAACGACTTCCTATTGGCAACACTATTCAGCC CTCCCAGGCTGCCACTTTCATGAATGATGCCATTGAGAAGGCAAGGAAAGCAGC TGAACTGCAAGCTCGAATCCAAGCCCAGCTGGCACTGAAGCCAGGACTCATCGG CAATGCCAACATGGTGGGCCTGGCTAATCTCCATGCCATGGGCATTGCTCCCCC GAAGGTGGAGTTAAAAGACCAAACGAAACCTACACCACTGATCCTGGATGAGCA AGGGCGCACTGTAGATGCAACAGGCAAGGAGATTGAGCTGACACACCGCATGCC TACTCTGAAAGCCAATATTCGTGCTGTGAAGAGGGAACAATTCAAGCAACAACT AAAGGAAAAGCCATCAGAAGACATGGAATCCAATACCTTTTTTGACCCCCGAGT CTCCATTGCCCCTTCCCAGCGCCAGAGACGCACTTTTAAATTCCATGACAAGGG CAAATTTGAGAAGATTGCTCAGCGATTACGGACAAAGGCTCAACTGGAGAAGCT ACAGGCAGAGATTTCACAAGCAGCTCGAAAAACAGGCATCCATACTTCGACTAG GCTTGCCCTCATTGCTCCTAAGAAGGAGCTAAAGGAAGGAGATATTCCTGAAAT TGAGTGGTGGGACTCTTACATAATCCCCAATGGCTTTGATCTTACAGAGGAAAA TCCCAAGAGAGAAGATTATTTTGGAATCACAAATCTTGTTGAACATCCAGCCCA GCTCAATCCTCCAGTTGACAATGACACACCAGTTACTCTGGGAGTATATCTTAC CAAGAAGGAACAGAAAAAACTTCGGAGACAAACAAGGAGGGAAGCACAGAAGGA ACTACAAGAAAAAGTCAGGCTGGGCCTGATGCCTCCTCCAGAACCCAAAGTGAG AATTTCTAATTTGATGCGAGTATTAGGAACAGAAGCTGTTCAAGACCCCACGAA GGTAGAAGCCCACGTCAGAGCTCAGATGGCAAAAAGACAGAAAGCGCATGAAGA GGCCAACGCTGCCCGAAAACTCACAGCAG	1464	EERKKQLSFISPPTPQPKTPSSS QPERLPIGNTIQPSQAATFMNDA IEKARKAAELQARIQAQLALKPG LIGNANMVGLANLHAMGIAPPKV ELKDQTKPTPLILDEQGRTVDAT GKEIELTHRMPTLKANIRAVKRE QFKQQLKEKPSEDMESNTFFDPR VSIAPSQRQRRTFKFHDKGKFEK IAQRLRTKAQLEKLQAEISQAAR KTGIHTSTRLALIAPKKELKEGD IPEIEWWDSYIIPNGFDLTEENP KREDYFGITNLVEHPAQLNPPVD NDTPVTLGVYLTKKEQKKLRRQT RREAQKELQEKVRLGLMPPPEPK VRISNLMRVLGTEAVQDPTKVEA HVRAQMAKRQKAHEEANAARKLT A
Human hGIT1_v4	11	prey2251	727	ATGACCAGTGTGGTTAAGACAGTGTATAGCCTGCAGCCCCCCTCTGCGCTGAGC GGCGGCCAGCCGGCAGACACACAAACTCGGGCCACTTCTAAGAGTCTCTTACCT GTTAGGTCCAAAGAAGTCGATGTTTCCAAACAGCTTCATTCAGGAGGTCCAGAG AATGATGTTACAAAAATCACCAAACTGAGACGAGAGAATGGGCAAATGAAAGCT ACTGACACTGCCACCAGAAGGAATGTCAGAAAAGGCTACAAACCACTGAGTAAG	1465	MTSVVKTVYSLQPPSALSGGQPA DTQTRATSKSLLPVRSKEVDVSK QLHSGGPENDVTKITKLRRENGQ MKATDTATRRNVRKGYKPLSKQK SEEELKDKNQLLEAVNKQLHQKL

				CAAAAATCAGAGGAAGAGCTCAAGGACAAGAACCAGCTGTTAGAAGCCGTCAAC AAGCAGTTGCACCAGAAGTTGACTGAAACTCAGGGAGAGCTGAAGGACCTGACC CAGAAGGTAGAGCTGCTGGAGAAGTTTCGGGACAACTGTTTGGCAATTTTGGAG AGCAAGGGCCTTGATCCAGCTTTAGGCAGTGAGACCCTGGCATCACGACAAGAA TCCACTACTGATCACATGGACTCTATGTTGCTGTTAGAAACTTTGCAAGAGGAG CTGAAGCTTTTTAACGAAACA		TETQGELKDLTQKVELLEKFRDN CLAILESKGLDPALGSETLASRQ ESTTDHMDSMLLLETLQEELKLF NET
Human hGIT1_v4	11	prey9359	728	GGAGTCTCTCCCAACCTACGGGGTTCACTATTATGCAGTGAAGGACAAGCAGGG CATACCATGGTGGCTGGGCCTGAGCTACAAAGGGATCTTCCAGTATGACTACCA TGATAAAGTGAAGCCAAGAAAGATATTCCAATGGAGACAGTTGGAAAACCTGTA CTTCAGAGAAAAGAAGTTTTCCGTGGAAGTTCATGACCCACGCAGGGCTTCAGT GACAAGGAGGACGTTTGGGCACAGCGGCATTGCAGTGCACACGTGGTATGCATG TCCGGCATTGATCAAGTCCATCTGGGCTATGGCCATAAGCCAACACCAGTTCTA TCTGGACAGAAAGCAGAGTAAGTCCAAAATCCATGCAGCACGCAGCCTGAGTGA GATCGCCATCGACCTGACCGAGACGGGGACGCTGAAGACCTCGAAGCTGGCCAA CATGGGTAGCAAGGGGAAGATCATCAGCGGCAGCAGCGGCAGCCTGCTGTCTTC AGGTTCTCAGGAATCAGATAGCTCGCAGTCGGCCAAGAAGGACATGCTGGCTGC CTTGAAGTCCAGGCAGGAAGCTCTGGAGGAAACCCTGCGTCAGAGGCTGGAGGA ACTGAAGAAGCTGTGTCTCCGAGAAGCTGAGCTCACGGGCAAGCTGCCAGTAGA ATATCCCCTGGATCCAGGGGAGGAACCACCCATTGTTCGGAGAAGAATAGGAAC AGCCTTCAAACTGGATGAACAGAAAATCCTGCCCAAAGGAGAGGAAGCTGAGCT GGAACGCCTGGAACGAGAGTTTGCCATTCAGTCCCAGATTACGGAGGCCGCCCG CCGCCTAGCCAGTGACCCCAACGTCAGCAAAAAACTGAAGAAACAAAGGAAAAC CTCGTATCTGAATGCACTGAAGAAACTGCAGGAGATTGAAAATGCAATCAATGA GAACCGCATCAAGTCTGGGAAGAAACCCACCCAGAGGGCTTCGCTGATCATAGA CGATGGAAACATTGCCAGTGAAGACAGCTCCCTCTCAGATGCCCTTGTTCTTGA GGATGAAGACTCTCAGGTTACCAGCAC	1466	ESLPTYGVHYYAVKDKQGIPWWL GLSYKGIFQYDYHDKVKPRKIFQ WRQLENLYFREKKFSVEVHDPRR ASVTRRTFGHSGIAVHTWYACPA LIKSIWAMAISQHQFYLDRKQSK SKIHAARSLSEIAIDLTETGTLK TSKLANMGSKGKIISGSSGSLLS SGSQESDSSQSAKKDMLAALKSR QEALEETLRQRLEELKKLCLREA ELTGKLPVEYPLDPGEEPPIVRR RIGTAFKLDEQKILPKGEEAELE RLEREFAIQSQITEAARRLASDP NVSKKLKKQRKTSYLNALKKLQE IENAINENRIKSGKKPTQRASLI IDDGNIASEDSSLSDALVLEDED SQVTS
Human hGIT1_v4	11	prey4193	729	CGCAGACATACAGATTGAACAGCTAAACAGAACGAAAAAGCATGCACATCTTAC AGATACAGAGATCATGACTTTGGTAGATGAGACTAACATGTATGAAGGTGTAGG AAGAATGTTTATTCTTCAGTCCAAGGAAGCAATTCACAGTCAGCTGTTAGAGAA GCAGAAAATAGCAGAAGAAAAAATTAAAGAACTAGAACAGAAAAAGTCCTACCT GGAGCGAAGGTTAAAGGAAGCTGAGGACAACATCCGGGAGATGCTGATGGCACG AAGGGCCCAGTAG	1467	ADIQIEQLNRTKKHAHLTDTEIM TLVDETNMYEGVGRMFILQSKEA IHSQLLEKQKIAEEKIKELEQKK SYLERRLKEAEDNIREMLMARRA Q*
Human hGIT1_v4	11	prey4057	730	CCAACATTGATCACCTCCAGAGCCAAGTGGAGGAGCTGAAGTCATCTGGCCAAG GGAGAAGGAGCCCGGGAAAGTGTGACCAGGAGAAACCGGCACCCAGCTTTGCAT GTCTGAAGGAGCTGTATGACCTCCGCCAACACTTCGTGTATGATCATGTGTTCG CTGAGAAGATCACTTCCTTGCAAGGTCAGCCAAGCCCTGATGAAGAGGAAAATG AGCACTTGAAAAAAACAGTGACAATGTTGCAGGCCCAGCTGAGCCTGGAGCGGC AGAAGCGGGTGACTATGGAGGAGGAATATGGGCTCGTGTTAAAGGAGAACAGTG AACTGGAGCAGCAGCTGGGGGCCACAGGTGCCTACCGAGCACGGGCGCTGGAAC	1468	NIDHLQSQVEELKSSGQGRRSPG KCDQEKPAPSFACLKELYDLRQH FVYDHVFAEKITSLQGQPSPDEE ENEHLKKTVTMLQAQLSLERQKR VTMEEEYGLVLKENSELEQQLGA TGAYRARALELEAEVAEMRQMLQ SEHPFVNGVEKLVPDSLYVPFKE

				TAGAGGCCGAGGTCGCAGAGATGCGACAGATGTTGCAGTCAGAGCATCCATTTG TGAATGGAGTTGAGAAGCTGGTGCCAGACTCTCTGTATGTTCCTTTCAAAGAGC CCAGCCAGAGCCTGCTGGAAGAGATGTTCCTGACTGTGCCGGAATCACATAGAA AGCCTCTCAAGCGCAGCAGCAGTGAGACGATCCTCAGCAGCTTGGCAGGGAGTG ACATCGTGAAGGGCCACGAGGAGACCTGCATCAGGAGGGCCAAGGCTGTGAAAC AGAGGGGCATCTCCCTTCTGCACGAAGTGGACACGCAGTACAGCGCCCTGAAGG TGAAGTATGAAGAGTTGCTGAAGAAGTGCCAAGAGGAACAGGACTCCCTGTCAC ACAAGGCTGTGCAGACCTCCAGGGCTGCAGCCAAGGACCTGACTGGAGTGAACG CCCAGTCTGAGCCTGTTGCCAGCGGCTGGGAACTGGCCTCTGTCAACCCAGAGC CCGTGAGTTCCCCTACAACACCTCCAGAATACAAAGCGTTGTTTAAGGAGATCT TTAGTTGCATCAAGAAAACTAAGCAGGAAATAGATGAACAGAGAACAAAATACC GATCACTCTCCTCTCATTCTTAATTGAACCTCTAGCTCTACTACTAATTTGCCT ATTGCCTATCGCCTCTCTCTCCCATTCAGACAAGTGTTTGTAGACTCTGAAGCC TAATGTTACTCATGACGTTTGCCTCATTGCTTTGCTTATTTAGCAAATGCATAC AACGAGGAAAGGAGGTGGCTAGTGGTATCAGTTCTCTGATCCACTTCCATTTAA GCTCCCCAGGAAATCCCATGACAAACTGGCCTCTGGCTGGCGCGCTGTTAGACT TCAGTTCCTGAAAAGGACCAGTGGAGGGAAGAGCTATACTTCTGGAGAAGTAGG CCTGGAGTTACTACAGTATGGGGGAAAAGGGTCGAG		PSQSLLEEMFLTVPESHRKPLKR SSSETILSSLAGSDIVKGHEETC IRRAKAVKQRGISLLHEVDTQYS ALKVKYEELLKKCQEEQDSLSHK AVQTSRAAAKDLTGVNAQSEPVA SGWELASVNPEPVSSPTTPPEYK ALFKEIFSCIKKTKQEIDEQRTK YRSLSSHS*LNL*LYY*FAYCLS PLSPIQTSVCRL*SLMLLMTFAS LLCLFSKCIQRGKEVASGISSLI HFHLSSPGNPMTNWPLAGALLDF SS*KGPVEGRAILLEK*AWSYYS MGEKGR
Human hGIT1_v4	11	prey4278	731	GCAAGACCAGCAGACTCTATCTTGTCTGCTACAAACTCTTCTCACGGGTCCTTA CAGTGTTATGCCCAGCAATGTTGCATCTCCTCAAGTACACTTCATAATGCACCA GTTGAACCAGTGCTATACTCAGCTAACATGGCAACAGAATAATGTTCAGAGGTT GAAACAAATGCTAAATGAACTTATGCGCCAACGAAATCAGCATCCAGAAAAACC TGGAGGCAAGGAAAGAGGCAGTAGTGCATCGCACCCTCCTTCTCCCAGTTTATT TTGTCCTTTCAGCTTTCCAACACAGCCTGTAAATCTCTTCAATATACCTGGATT TACTAACTTTTCATCATTTGCACCAGGTATGAATTTCAGCCCTTTATTTCCTTC TAATTTTGGAGATTTTTCTCAGAATATCTCTACACCCAGTGAACAGCAGCAACC CTTAGCCAGAATTCTTTCAGGAAAAACAGAATATATGGCTTTTCCAAAACCTTT TGAAAGCAGTTCCTCTATTGGAGCAGAGAAACCAAGGAATAAAAAACTGCCTGA AGAGGAGGTGGAAAGCAGTAGGACACCATGGTTATATGAACAAGAAGGTGAAGT AGAGAAACCATTTATCAAGACTGGATTTTCAGTGTCTGTAGAAAAATCTACAAG TAGTAACCGCAAAAATCAATTAGATACAAACGGAAGAAGACGCCAGTTTGATGA AGAATCACTGGAAAGCTTTAGCAGTATGCCTGATCCAGTAGATCCAACAACAGT GACTAAAACATTCAAGACAAGAAAAGCGTCTGCACAGGCCAGCCTGGCATCTAA AGATAAAACTCCCAAGTCAAAAAGTAAGAAGAGGAATTCTACTCAGCTGAAAAG CAGAGTTAAAAACATCAGGTATGAAAGTGCCAGTATGTCTAGCACATGTGAACC TTGCAAAAGTAGGAACAGACATTCAGCCCAGACTGAAGAGCCTCTTCAAGCAAA AGTAT	1469	QDQQTLSCLLQTLLTGPYSVMPS NVASPQVHFIMHQLNQCYTQLTW QQNNVQRLKQMLNELMRQRNQHP EKPGGKERGSSASHPPSPSLFCP FSFPTQPVNLFNIPGFTNFSSFA PGMNFSPLFPSNFGDFSQNISTP SEQQQPLARILSGKTEYMAFPKP FESSSSIGAEKPRNKKLPEEEVE SSRTPWLYEQEGEVEKPFIKTGF SVSVEKSTSSNRKNQLDTNGRRR QFDEESLESFSSMPDPVDPTTVT KTFKTRKASAQASLASKDKTPKS KSKKRNSTQLKSRVKNIRYESAS MSSTCEPCKSRNRHSAQTEEPLQ AKV
Human hGIT1_v4	11	prey3346	732	GTCCATCAACTCTCGAGTCTTCATTGGAAACCTCAACACAGCTCTGGTGAAGAA ATCAGATGTGGAGACCATCTTCTCTAAGTATGGCCGTGTGGCCGGCTGTTCTGT	1470	SINSRVFIGNLNTALVKKSDVET IFSKYGRVAGCSVHKGYAFVQYS

				GCACAAGGGCTATGCCTTTGTTCAGTACTCCAATGAGCGCCATGCCCGGGCAGCTGTGCTGGGAGAGAATGGGCGGGTGCTGGCCGGGCAGACCCTGGACATCAACATGGCTGGAGAGCCTAAGCCTGACAGACCCAAGGGGCTAAAGAGAGCAGCATCTGCCATATACAGTGGCTACATCTTTGACTATGATTACTACCGGGACGACTTCTACGACAGGCTCTTCGACTACCGGGGCCGTCTGTCGCCCGTGCCAGTGCCCAGGGCGGTCCCTGTGAAGCGACCCCGGGTCACAGTCCCTTTGGTCCGGCGTGTCAAAACTAACGTACCTGTCAAGCTCTTTGCCCGCTCCACAGCTGTCACCACCAGCTCAGCCAAGATCAAGTTAAAGAGCAGTGAGCTGCAGGCCATCAAGACGGAGCTGACACAGATCAAGTCCAATATCGATGCCCTGCTGAGCCGCTTGGAGCAGATCGCTGCGGAGCAAAAGGCCAATCCAGATGGCAAGAAGAAGGGTGATGGAGGTGGCGCCGGCGGCGGCGGCGGTGGTGGTGGCAGCGGTGGCGGTGGCAGTGGTGGTGGCGG		NERHARAAVLGENGRVLAGQTLDINMAGEPKPDRPKGLKRAASAIYSGYIFDYDYYRDDFYDRLFDYRGRLSPVPVPRAVPVKRPRVTVPLVRRVKTNVPVKLFARSTAVTTSSAKIKLKSSELQAIKTELTQIKSNIDALLSRLEQIAAEQKANPDGKKKGDGGAGGGGGGGSGGGGSGGG
Human hGIT1_v4	11	prey4297	733	ATAGATTTACAATCAGCCATATGTATGCAGATATTAAATGCCAGAAAATTAGTCCAGAAGGAAAAGCTAAAATTCAGCTTCAGCTGGTCCTACATGCAGGGGACACAACTAACTTCCATTTTTCCAATGAAAGCACAGCAGTGAAAGAGCGAGATGCAGTAAAAGACCTTCTTCAGCAGCTGCTGCCCAAATTCAAGAGGAAAGCAAATAAAGAACTGGAAGAGAAGAACAGAATGCTGCAAGAAGATCCTGTTTTGTTTCAGCTTTATAAAGACCTTGTTGTGAGTCAAGTGATCAGTGCTGAGGAATTCTGGGCCAATCGTTTAAATGTGAATGCAACAGATAGTTCTTCCACATCCAATCATAAGCAGGATGTTGGCATTTCTGCTGCATTTCTGGCTGATGTCCGGCCCCAAACTGATGGCTGTAACGGTCTAAGATATAATTTAACTTCTGATATCATTGAGTCCATATTTAGGACCTATCCAGCAGTAAAAATGAAATATGCAGAAAATGTTCCCCACAACATGACAGAGAAGGAATTCTGGACACGTTTTTTCCAGTCCCATTATTTTCACAGGGATCGGCTGAATACAGGGTCAAAGGATCTCTTTGCAGAATGTGCCAAA	1471	RFTISHMYADIKCQKISPEGKAKIQLQLVLHAGDTTNFHFSNESTAVKERDAVKDLLQQLLPKFKRKANKELEEKNRMLQEDPVLFQLYKDLVVSQVISAEEFWANRLNVNATDSSSTSNHKQDVGISAAFLADVRPQTDGCNGLRYNLTSDIIESIFRTYPAVKMKYAENVPHNMTEKEFWTRFFQSHYFHRDRLNTGSKDLFAECAK
Human hGIT1_v4	11	prey4319	734	AAACGTGTTACCAGGTTTGCCCCAGTACACCAGCATATATACACCCTTGGCCAGCCTTTCTCCTGAATATCAGCTACCAAGATCAGTACCAGTGGTGCCGTCTTTTGTAGCCAATGACAGAGCAGATAAAAATGCTGCTGCCTATTTTGAGGGTCATCATTTGAATGCTGAGAATGTTGCTGGTCACCAGATTGCCTCTGAAACACAGATCCTTGAGGGCTCTTTGGGAATATCTGTAAAGTCACACTGCAGCACAGGTGATGCTCATACAGTCCTGAGTGAGTCTAACAGAAATGATGAGCACTGTGGAAATTCTAACAACAAATGTGAAGTAATTCCAGAAAGCACCAGTGCAGTAACAAACATTCCACACGTGCAGATGGTTGCCATACAGGTATCTTGGAACATAATACACCAAGAAGTCAATACTGAGCCATATAATCCTTTTGAGGAACGACAAGGGGAAATTTCACGGATTGAAAAGGAGCACCAAGTATTACAAGACCAACTTCAAGAAGTGTATGAAAATTATGAGCAGATAAAACTTAAGGGCTTAGAAGAGACCAGGGACCTGGAAGAGAAGTTGAAAAGGCACTTAGAAGAAAACAAGATCTCAAAGACGGAATTAGATTGGTTCCTTCAAGATTTGGAAAGAGAAATTAAAAAATGGCAACAGGAAAAAAAAGAAATCCAAGAAAGACTAAAATCACTGAAGAAGAAAATTAAAAAGGTTTCAAATGCCAGTGAAATGTATACCCAGAA	1472	NVLPGLPQYTSIYTPLASLSPEYQLPRSVPVVPSFVANDRADKNAAAYFEGHHLNAENVAGHQIASETQILEGSLGISVKSHCSTGDAHTVLSESNRNDEHCGNSNNKCEVIPESTSAVTNIPHVQMVAIQVSWNIIHQEVNTEPYNPFEERQGEISRIEKEHQVLQDQLQEVYENYEQIKLKGLEETRDLEEKLKRHLEENKISKTELDWFLQDLEREIKKWQQEKKEIQERLKSLKKKIKKVSNASEMYTQ
Human	11	prey13139	735	ATGCCTGGGATAAAGGTGGGAGGCTCAGGTGTCAATGTCAATGCAAAGGGCTTG	1473	MPGIKVGGSGVNVNAKGLDLGGR

hGIT1_v4				GACTTGGGTGGCAGAGGAGGGGTCCAAGTTCCAGCAGTGGACATTTCATCTTCT CTTGGGGGTAGGGCAGTAGAGGTACAGGGCCCATCTCTGGAGAGTGGTGATCAT GGCAAAATTAAATTTCCCACCATGAAAGTGCCGAAATTTGGTGTCTCAACAGGG CGTGAGGGCCAGACACCAAAGGCAGGGCTGAGGGTTTCTGCACCTGAAGTCTCT GTGGGGCACAAGGGCGGCAAGCCAGGCTTGACTATCCAAGCCCCTCAGCTGGAA GTCAGTGTGCCCTCTGCCAATATTGAGGGCCTTGAGGGGAAGCTGAAGGGCCCC CAAATCACTGGGCCATCACTTGAGGGTGACCTAGGCCTGAAAGGTGCCAAGCCA CAGGGGCACATTGGGGTGGATGCCTCTGCTCCCCAAATTGGGGGTAGCATCACT GGCCCCAGTGTGGAAGTTCAGGCCCCTGACATTGATGTTCAGGGGCCTGGGAGC AAACTGAATGTGCCCAAGATGAAAGTCCCCAAGTTCTCTGTATCAGGTGCAAAG GGAGAGGAAACTGGGATTGATGTGACACTGCCTACAGGTGAAGTGACTGTTCCT GGGGTCTCTGGGGATGTCAGCCTGCCTGAGATTGCTACTGGTGGGCTGGAAGGA AAGATGAAAGGTACTAAAGTGAAGACTCCTGAAATGATTATTCAGAAACCTAAA ATCTCCATGCAGGATGTGGATCTGAGCCTTGGGTCTCCTAAACTGAAAGGAGAT ATTAAGGTTTCTGCTCCTGGGGTGCAAGGTGATGTTAAAGGCCCTCAAGTGGCA CTTAAAGGCTCCAGAGTGGACATAGAGACACCAAACCTAGAGGGAACCTTGACA GGCCCTAGGCTTGGCAGTCCTTCCGGGAAAACCGGAACCTGTAGGATCTCTATG TCAGAAGTAGACTTAAATGTGGCCGCACCTAAAGTGAAAGGGGGTGTAGATGTC ACACTCCCCAGAGTAGAAGGGAAAGTCAAAGTCCCTGAAGTTGATGTCAGAGGC CCCAAAGTGGATGTCAGTGCCCCAGATGTCGAAGCGCATGGCCCAGAATGGAAC CTGAAAATGCCCAAGATGAAAATGCCCACGTTCAGCACTCCAGGAGCCAAAGGG GAAGGTCCAGATGTTCATATGACTCTACCCAAAGGAGATATCAGTATTTCAGGG CCCAAGGTCAATGTGGAAGCCCCAGATGTCAACTTGGAGGGTCTGGGGGGAAAA CTTAAAGGCCCCGATGTTAAGCTGCCTGATATGAGTGTCAAGACACCAAAGATC TCCATGCCTGATGTAGATTTGCACGTGAAAGGTACAAAGGTGAAGGGAGAGTAT GATGTAACTGTACCAAAGCTGGAAGGAGAACTCAAAGGCCCAAAAGTGGACATT GATGCCCCAGATGTGGATGTTCATGGCCCAGACTGGCACTTGAAGATGCCCAAG ATGAAAATGCCCAAATTCAGTGTGCCAGGGTTCAAAGCAGAGGGCCCAGAAGTG GATGTGAACCTGCCCAAGGCTGATGTGGACATTTCCGGGCCCAAGATAGATGTT ACTGCTCCTGATGTGAGCATTGAGGAACCAGAAGGGAAATTGAAAGGGCCCAAG TTTAAGATGCCTGAGATGAACATCAAAGTCCCCAAGATCTCCATGCCTGATGTG GACTTACATCTGAAAGGCCCTAACGTAAAGGGAGAATATGATGTCACAATGCCA AAGGTTGAAAGTGAGATTAAAGTTCCTGATGTTGAACTTAAAAGTGCCAAAATG GACATTGATGTCCCAGATGTGGAGGTTCAAGGCCCAGACTGGCACCTGAAGATG CCCAAGATGAAAATGCCCAAGTTCAGCATGCCTGGCTTCAAAGCAGAGGGCCCA GAAGTGGATGTGAACCTGCCCAAGGCTGATGTGGACATCTCAGGACCCAAGGTG GGTGTTGAAGTTCCAGATGTGAATATTGAAGGACCTGAAGGAAAGCTGAAGGGC CCCAAGTTCAAGATGCCAGAGATGAATATCAAGGCCCCCAAGATCTCCATGCCT GATGTGGACTTGCATATGAAAGGTCCTAAAGTAAAGGGAGAATATGATATGACA		GGVQVPAVDISSSLGGRAVEVQG PSLESGDHGKIKFPTMKVPKFGV STGREGQTPKAGLRVSAPEVSVG HKGGKPGLTIQAPQLEVSVPSAN IEGLEGKLKGPQITGPSLEGDLG LKGAKPQGHIGVDASAPQIGGSI TGPSVEVQAPDIDVQGPGSKLNV PKMKVPKFSVSGAKGEETGIDVT LPTGEVTVPGVSGDVSLPEIATG GLEGKMKGTKVKTPEMIIQKPKI SMQDVDLSLGSPKLKGDIKVSAP GVQGDVKGPQVALKGSRVDIETP NLEGTLTGPRLGSPSGKTGTCRI SMSEVDLNVAAPKVKGGVDVTLP RVEGKVKVPEVDVRGPKVDVSAP DVEAHGPEWNLKMPKMKMPTFST PGAKGEGPDVHMTLPKGDISISG PKVNVEAPDVNLEGLGGKLKGPD VKLPDMSVKTPKISMPDVDLHVK GTKVKGEYDVTVPKLEGELKGPK VDIDAPDVDVHGPDWHLKMPKMK MPKFSVPGFKAEGPEVDVNLPKA DVDISGPKIDVTAPDVSIEEPEG KLKGPKFKMPEMNIKVPKISMPD VDLHLKGPNVKGEYDVTMPKVES EIKVPDVELKSAKMDIDVPDVEV QGPDWHLKMPKMKMPKFSMPGFK AEGPEVDVNLPKADVDISGPKVG VEVPDVNIEGPEGKLKGPKFKMP EMNIKAPKISMPDVDLHMKGPKV KGEYDMTVPKLEGDLKGPKVDVS APDVEMQGPDWNLKMPKIKMPKF SMPSLKGEGPEFDVNLSKANVDI SAT*

				GTGCCAAAGCTGGAAGGGGACCTGAAAGGCCCAAAAGTAGATGTCAGTGCCCCA GATGTTGAAATGCAGGGTCCTGACTGGAACTTGAAGATGCCAAAGATTAAAATG CCCAAATTTAGCATGCCCAGCCTCAAAGGAGAGGGGCCAGAATTTGATGTGAAC CTGTCCAAAGCGAATGTGGACATTTCTGCTACCTAA		
Human hGIT1_v4	11	prey19261	736	ATGAAAGAAAAGACCAAACCTCAGGGTGGAGAGGGCAAAGGCGCTCAGTCAACT CCGATCCAGCACTCCTTCCTCACTGATGTCTCAGATGTTCAGGAGATGGAGAGA GGGCTGCTCAGTCTTTTGAATGATTTCCACTCTGGAAAACTTCAAGCATTTGGA AATGAATGTTCCATTGAACAGATGGAACATGTTCGGGGAATGCAGGAGAAATTA GCTCGCTTGAATTTGGAGCTCTATGGGGAGTTAGAGGAACTTCCTGAGGATAAG AGAAAAACAGCCAGTGACTCCAATCTGGATAGGCTTCTGTCAGATTTAGAAGAA TTGAATTCTTCCATACAAAAACTCCATTTGGCAGATGCACAAGATGTTCCAAAT ACTTCTGCTAGCTAA	1474	MKEKTKPQGGEGKGAQSTPIQHS FLTDVSDVQEMERGLLSLLNDFH SGKLQAFGNECSIEQMEHVRGMQ EKLARLNLELYGELEELPEDKRK TASDSNLDRLLSDLEELNSSIQK LHLADAQDVPNTSAS*
Human hGIT1_v4	11	prey24301	737	GCCCCTGTAATGCTCTACTTCACTCACTTGATTTCAGAATGTCTCCCTCAGTAC TTAACAAGGTATCTGGTAAGTAAATGCTTGCTAAATGAATGCACTAATCTTTGN GAAAATAGGAAAAATGANTTGGAACAGGTAAAGGNANNNTTTGNGAAGGNACNC GGAGNATTGTTNACAANGATTGNGGTTGGGGGGGGGNAGGNACGCGGNGGATG GGGGTGGGTGGGGCGGGGGGNAGGGGNGTATGGGNGGCGNGGGNANNGGAGNN NNTGNGGTNTNTGNCCCCCNCNGCCGNCCNTCCNTNCNCNCCNTCGNGNTNGCN CGCNCCCNNNCGNCTTNCCNCCCCCCNCNTNNNNCNTTTNNNCNCCCGCGTNTC NCNGTGNCGCGCCNNCACGNTNTGCNNNCCGTGTCCGGCGNNNNNTTACNGCNN NCNNNGNTNNATCCCNNNATNGCNGCCCNANNCGTGCGGCGGNCGCNGTNNCN	1475	APVMLYFTHLISECLPQYLTRYL VSKCLLNECTNLXENRKNXLEQV KXXFXKXXGXLXTXIXVGGGXGT RXMGVGGAGGXGXMGGXGXGXXX VXXPXXRPSXXXXXXARXXXXXX PPXXXFXXPRXXVXRXHXXXXVS GXXLXXXXXXPXXAAXXVRRXXX
Human hGIT1_v4	11	prey1551	738	TGAGGAGACAGATATGGAGGATGAATTCGAGCAGCCAACCATGTCTTTTGAATC CTACCTCAGCTATGACCAGCCCCGGAAGAAAAAGAAAAAGATTGTGAAAACTTC AGCCACGGCACTTGGAGATAAAGGACTTAAAAAAAATGACTCTAAAAGCACTGG TAAAAACTTGGACTCAGTTCAGAAATTACCCAAGGTGAACAAAACCAAGTCAGA GAAGCCGGCTGGAGCTGATTTAGCCAAGCTGAGAAAGGTGCCTGATGTGTTGCC AGTGTTGCCAGACCTCCCGTTACCCGCGATACAGGCCAATTACCGTCCACTGCC TTCCCTCGAGCTGATATCCTCCTTCCAGCCAAAGCGAAAAGCGTTCTCTTCACC CCAGGAAGAAGAAGAAGCTGGATTTACTGGGCGCAGAATGAATTCCAAGATGCA GGTGTATTCTGGTTCCAAGTGTGCCTATCTCCCTAAAATGATGACCTTGCACCA GCAATGCATCCGAGTACTTAAAAACAACATCGATTCAATCTTTGAAGTGGGAGG AGTCCCATACTCTGTTCTTGAACCCGTTTTGGAGAGGTGTACACCTGATCAGCT GTATCGCATAGAGGAATACAATCATGTATTAATTGAAGAAACAGATCAATTATG GAAAGTTCATTGTCACCGAGACTTTAAGGAAGAAAGACCCGAAG	1476	EETDMEDEFEQPTMSFESYLSYD QPRKKKKKIVKTSATALGDKGLK KNDSKSTGKNLDSVQKLPKVNKT KSEKPAGADLAKLRKVPDVLPVL PDLPLPAIQANYRPLPSLELISS FQPKRKAFSSPQEEEEAGFTGRR MNSKMQVYSGSKCAYLPKMMTLH QQCIRVLKNNIDSIFEVGGVPYS VLEPVLERCTPDQLYRIEEYNHV LIEETDQLWKVHCHRDFKEERPE
Human hGIT1_v4	11	prey24311	739	TCTGAAGCCAATAAACTTGCAGCAAATAGCAGTCTTTTTACCCAAAGGAACATG AAGGCCCAAGAAGAGATGATTTCTGAACTCANGCNACAGAAATTTTACCTGGAN ACACANGCTGGGAAGGTGGNGGGCCAGAACCNGNAAACTGGANGAGCAGCTTGG AGAAANATCGGGC	1477	SEANKLAANSSLFTQRNMKAQEE MISELXXQKFYLXTXAGKVXGQN XXTGXAAWRXIG

Human hGIT1_v4	11	prey1687	740	TGCTGCCCTTCGTGCAGAGATCACAGATGCTGAAGGCCTGGGTTTGAAGCTCGA AGATCGAGAGACAGTTATTAAGGAGTTGAAGAAGTCACTCAAGATTAAGGGAGA GGAGCTAAGTGAGGCCAATGTGCGGCTGAGCCTCCTGGAGAAGAAGTTGGACAG TGCTGCCAAGGATGCAGATGAGCGCATCGAGAAAGTCCAGACTCGGCTGGAGGA GACCCAGGCACTGCTGCGAAAGAAGGAGAAAGAGTTTGAGGAGACAATGGATGC ACTCCAGGCTGACATCGACCAGCTGGAGGCAGAGAAGGCAGAACTAAAGCAGCG TCTGAACAGCCAGTCCAAACGCACGATTGAGGGACTCCGGGGCCCTCCTCCTTC AGGCATTGCTACTCTGGTCTCTGGCATTGCTGGTGAAGAACAGCAGCGAGGAGC CATCCCTGGGCAGGCTCCAGGGTCTGTGCCAGGCCCAGGGCTGGTGAAGGACTC ACCACTGCTGCTTCAGCAGATCTCTGCCATGAGGCTGCACATCTCCCAGCTCCA GCATGAGAACAGCATCCTCAAGGGAGCCCAGATGAAGGCATCCTTGGCATCCCT GCCCCCTCTGCATGTTGCAAAGCTATCCCATGAGGGCCCTGGCAGTGAGTTACC AGCTGGAGCGCTGTATCGTAAGACCAGCCAGCTGCTGGAGACATTGAATCAATT GAGCACAC	1478	AALRAEITDAEGLGLKLEDRETV IKELKKSLKIKGEELSEANVRLS LLEKKLDSAAKDADERIEKVQTR LEETQALLRKKEKEFEETMDALQ ADIDQLEAEKAELKQRLNSQSKR TIEGLRGPPPSGIATLVSGIAGE EQQRGAIPGQAPGSVPGPGLVKD SPLLLQQISAMRLHISQLQHENS ILKGAQMKASLASLPPLHVAKLS HEGPGSELPAGALYRKTSQLLET LNQLST
Human hGIT1_v4	11	prey24357	741	AAGGACCGTAGCCTGACGGTCAAGCTGGAACCGGTGTNCTNCCCNTAGGGNTTT TACACTGACTTTNNTTGNTNAGTTNNTTGTTNCNNGCGNNNTTCNNGGTTTNGG TCTGTTTTTTNTTTTTTTTTNNTTGTNNNTTTTNNNTTNGTCGTNNTTNTTTTT TTTTTTTTNGTNTNTTGTTTTTCTTTTNCNNTTNNATNTTNTNTTNGTTTTTTN TTNTNGTGGNNTNTGTTTTGTTTTTTTTTTTTTNTTTNTTTTTTTTTTTN	1479	KDRSLTVKLEPVXXP*GFYTDFX XXVXCXXRXSXFXSVFXFFXXVX FXXVVXXFFFXVXCFSFXXXXXX XFXXXWXXFCFFFFXXFFFX
Human hGIT1_v4	11	prey2451	742	GAGTGCACTGGCAAAATTCAAGGAGGGGGCAGAGATGGAGAGTTCAAAGGAAGA CAAGGCAAGGCAGGCTGAGGTAAAGCGGCTCTTCCGCCCCATTGAGGAACTGAA GAAAGACTTTGATGAGCTGAATGTTGTCATTGAGACTGACATGCAGATCATGGT ACGGCTGATCAACAAGTTCAATAGTTCCAGCTCCAGTTTGGAAGAGAAGATTGC TGCGCTCTTTGATCTTGAATATTATGTCCATCAGATGGACAATGCGCAGGACCT GCTTTCCTTTGGTGGTCTTCAAGTGGTGATCAATGGGCTGAACAGCACAGAGCC CCTCGTGAAGGAGTATGCTGCGTTTGTGCTGGGCGCTGCCTTTTCCAGCAACCC CAAGGTCCAGGTGGAGGCCATCGAAGGGGGAGCCCTGCAGAAGCTGCTGGTCAT CCTGGCCACGGAGCAGCCGCTCACTGCAAAGAAGAAGGTCCTGTTTGCACTGTG CTCCCTGCTGCGCCACTTCCCCTATGCCCAGCGGCAGTTCCTGAAGCTCGGGGG GCTGCAGGTCCTGAGGACCCTGGTGCAGGAGAAGGGCACGGAGGTGCTCGCCGT GCGCGTGGTCACACTGCTCTACGACCTGGTCACGGAGAAGATGTTCGCCGAG	1480	SALAKFKEGAEMESSKEDKARQA EVKRLFRPIEELKKDFDELNVVI ETDMQIMVRLINKFNSSSSSLEE KIAALFDLEYYVHQMDNAQDLLS FGGLQVVINGLNSTEPLVKEYAA FVLGAAFSSNPKVQVEAIEGGAL QKLLVILATEQPLTAKKKVLFAL CSLLRHFPYAQRQFLKLGGLQVL RTLVQEKGTEVLAVRVVTLLYDL VTEKMFAE
Human hGIT1_v4	11	prey24310	743	GCCCCGGCCGGCCGACCGACACCGACCCCGCCTACTGCGGCGCGGGGACCCTTG GCAAGACTCGTGGCTGTGACCCATGGGCCTCTGAGGAGGCGTTGTAAGTCCGCC CAGCTCCCCACTTGCTGTGCTCTCACTCAATGCGAAGGGAACCAAGGTACCAGG GCCAAGTGGGTCCAGACATCCACACNGATTCTGANNGGGCANGTCAAAGCATAC TTTNNTCCANCCATCAGCCACNGNNTTTTGTANTTGNACNANNGATGGAANGTN AANNTGNNNTTTTNTTNNTGTTCTNNTNNCTTTNTATNCCCGTTTNTTTTTTNT NCTGTGANGTNNGTCGCGCCGNGTGGNNGGAAGGGANGTNTAGNNGGTNNTGGG GGGNGGGGNNNTTGNGCNGTNNGTNGNGGGGGGTNNNG	1481	APAGRPTPTPPTAARGPLARLVA VTHGPLRRRCKSAQLPTCCALTQ CEGNQGTRAKWVQTSTXILXGXV KAYFXPXISHXXLXLXXXWXVXX XFXXCSXXFXXPFXFXXVXXVAP XGXKGXXXGXGGXGXXAVXXGGX

Human hGIT1_v4	11	prey24314	744	AGCNGNNNGAGGCTNGNTNAANACCNANNNTCCCCANNGNCNCNTNGGAAGTGCACAGCGTGGGCTAGGNTNGGTGAGAGTNTCATAGTATTGTAGANACACNCGNAAGACAGAGCATGAATGNTGCACANNTGNTTTACTNNAAGACCTNNGGNNNNAGTGTGGAGTGTGTNGTGTGCACACNNAATCCNACCNCNTCNGGCAGTNTNNNTNGNACATNNNAATNAACCNGGCAATNNGNAAGAAGCAANTATTNATNTTCGAGACGAGGCATTACTAGTCGGGGTCAANGGCAACAGAAATTCTNCCAGCAANAAGACCAAGTNTNATNAAGNNGNATAAGAAGAAGACNTAAGNGATATAGCAGCAACTNTCCGNGNCC	1482	SXXRLXXXXXSPXXXXKCTAWARXGESXIVL*XHXXDRA*MXHXXFTXRPXXXVWSVXCAHXIXPXXAVXXXHXNXPGNXXEAXIXXRDEALLVGVXGNRNSXSXKTKXXXXX*EEDXXDIAATXRX
Human hGIT1_v4	11	prey19312	745	ACTAAATGATCTCCTAAAAGAAAAGCAGTCTGTGGAAAGAAAGTGCACTCAGCTAAACACAAAAGTGGCCAAACTCACCAACGAGCTCAAAGAGGAGCAGGAAATGAACAAGTGTTTGCGAGCCAACCAAGTCCTCCTGCAGAACAAGCTAAAAGAGGAGGAGAGGGTGCTGAAGGAGACCTGTGACCAAAAAGATCTGCAGATCACCGAGATCCAGGAGCAGCTGCGTGACGTCATGTTCTACCTGGAGACACAGCAGAAGATCAACCATCTGCCTGCCGAGACCCGGCAGGAAATCCAGGAGGGACAGATCAACATCGCCATGGCCTCGGCCTCGAGCCCTGCCTCTTCGGGGGGCAGTGGGAAGTTGCCCTCCAGGAAGGGCCGCAGCAAGAGGGGCAAGTGA	1483	LNDLLKEKQSVERKCTQLNTKVAKLTNELKEEQEMNKCLRANQVLLQNKLKEEERVLKETCDQKDLQITEIQEQLRDVMFYLETQQKINHLPAETRQEIQEGQINIAMASASSPASSGGSGKLPSRKGRSKRGK*
Human hGIT1_v4	11	prey24317	746	CGGATNCNGNANTAAANGTAAAGNTNGNCAANNGGTAAAAGGCTCTGGGCAGATCTTGGCACGCCGAGCAATTAGNATGCNTCAGCNTTGAGCATCAGCAGTNTTAGGAAGCAGCNTCTNCNNAAAGAANNAAGNNTNNNNCNNCCGGTANNNTNACNGTGANAAGNTANCGANAATCATGTGGTTTCTTAAATACNGNCCNGTATNNACNANATNGTGAGGGCNNAGGGGTCTCTTTGNNTNNCACAGCNAAATTGANGTGTCNGTTAAGAGGAGGNCATAGCACAGCAAGGTTTAGAAGAGCNTAAGAGCTNTCNTTTATTAATGCNGNCAGTCCTTNACNNNNNCNC	1484	RXXX*X*XXXXGKRLWADLGTPSN*XASALSISSXRKQXLXKEXXXXXPVXXX*XXXXNHVVS*IXXXXXXXVRAXGSLXXXQXN*XVX*EEXIAQQGLEEXKSXXLLMXXVLXXX
Human hGIT1_v4	11	prey4256	747	TTCAGAAGATGAAAGTGGAATGAATTTTTTGGAGAAAAGGGCTTTAAATATAAAGCAAAACAAAGCAATGCTTGCAAAACTCATGTCTGAATTAGAAAGCTTCCCTGGCTCGTTCCGTGGAAGACATCCCCTCCCAGGCTCCGACTCACAATCAAGGAGACCGCGAAGGCGTACATTCCCGGGTGTTGCTTCCAGGAGAAACCCTGAACGGAGAGCTCGTCCTCTTACCAGGTCAAGGTCCCGGATCCTCGGGTCCCTTGACGCTCTACCCATGGAGGAGGAGGAGGAAGAGGATAAGTACATGTTGGTGAGAAAGAGGAAGACCGTGGATGGCTACATGAATGAAGATGACCTGCCCAGAAGCCGTCGCTCCAGATCATCCGTGACCCTTCCGCATATAATTCGCCCAGTGGAAGAAATTACAGAGGAGGAGTTGGAGAACGTCTGCAGCAATTCTCGAGAGAAGATATATAACCGTTCACTGGGCTCTACTTGTCATCAATGCCGTCAGAAGACTATTGATAC	1485	SEDESGMNFLEKRALNIKQNKAMLAKLMSELESFPGSFRGRHPLPGSDSQSRRPRRRTFPGVASRRNPERRARPLTRSRSRILGSLDALPMEEEEEEDKYMLVRKRKTVDGYMNEDDLPRSRRSRSSVTLPHIIRPVEEITEEELENVCSNSREKIYNRSLGSTCHQCRQKTID
Human hGIT1_v4	11	prey19326	748	GCTTCTTGATAGTCAGGAAAGCAAATGGACAGCTCGAGTTCAAGCTATTCATCAAGAACACAAGAAAGAGAAGGGTCGGCTCCTGTCACATATAGAGAAACTTCGAACCTCAATGATAGATGATCTAAATGCAAGCAATGTTTTCTATAAGAAAAGGATAGAAGAGCTAGGGCAGAGACTCCAGGAGCAGAATGAGCTGATTATAACTCAGAGACAGCAGATTAAAGACTTTACCTGTAATCCATTAAACAGTATCAGTGAACCCAAAGTGAATGCCCCAGCCCTGCACACTTTGGAAACTAAATCAAGTCTGCCAATGGTGCA	1486	LLDSQESKWTARVQAIHQEHKKEKGRLLSHIEKLRTSMIDDLNASNVFYKKRIEELGQRLQEQNELIITQRQQIKDFTCNPLNSISEPKVNAPALHTLETKSSLPMVHEQAFSSHILEPIEELSEEEKGRENEQKLNN

				TGAACAGGCATTCTCGTCGCACATACTGGAACCAATAGAAGAACTTTCAGAGGA AGAAAAAGGAAGGGAAAATGAACAGAAATTAAATAACAACAAAATGCATTTAAG GAAAGCTTTGAAGAGTAACTCCTCCCTCACTAAGGGACTAAGAACAATGGTGGA GCAGAACTTGATGGAGAAACTGGAAACCTTGGGGATTAATGCAGATATACGTGG CATTTCAAGTGATCAGTTGCATAGAGTACTAAAAAGTGTGGAATCAGAAAGACA TAAGCAAGAAAGAGAAATACCTAACTTTCATCAAATTCGAGAATTCCTTGAACA TCAAGTCAGCTGTAAAATTGAGGAGAAAGCACTACTCTCTTCAGATCAGTGCAG TGTTTCTCAAATGGATACCCTTTCAACTGGAGAAGTACCCAAAATGATACAACT TCCTTCCAAAAACAGACAACTGATTAGACAAAAAGCTGTTTCTACTGATAGGAC ATCTGTTCCAAAAATTAAGAAAAATGTCATGGAAGA		NKMHLRKALKSNSSLTKGLRTMV EQNLMEKLETLGINADIRGISSD QLHRVLKSVESERHKQEREIPNF HQIREFLEHQVSCKIEEKALLSS DQCSVSQMDTLSTGEVPKMIQLP SKNRQLIRQKAVSTDRTSVPKIK KNVME
Human hGIT1_v4	11	prey24320	749	GTCCCTGGAAAAAGAGGAAGGCCACGAAAATTGAAACTCTGTAAGGCAGGACGA CCACCTAAGAACACAGGAAAGTCTTTAATTTCTACAAAGAATACACCTGTNAGC CCTGGGAGTACCTTTNNAGNTGTGAAGCNTGCGTNTGGNAACNTGNGGGCGTGG GGCGGGGGGTGGGGGGGGTTGGGGNGGTGGCGGGGGGNNGNGGGGNGNTGGG GGGGGGGNNNGNGNTGCNTGNNNGCNCNCNNCTGNNCGNGNCNGCGTTTNCTNC CNTGNNTTGTCTTNNTNTNNNTCNNGNGCNCGTNNGGNGNGGCNCNGNGGTTTN TNTTCNAACTNGCGGGGGNCGGGCCNTTTTTTNNNTCNTNCCNTTTTATTGGTN GGGTNGGGNGGCTGGGATNNTTNGTNNGTNTTNTCCGNGNGGTGNGNNNNNTTN GCGGNNTCGCNTNGTCGNGNTTGNGGGGNGGNNGCGNGGGGGGTGGNGAGGNNG TTCGN	1487	VPGKRGRPRKLKLCKAGRPPKNT GKSLISTKNTPVSPGSTFXXVKX AXGNXXAWGGGWGGVGXVGGGXX GXGGGXXXAXXXXXXRXXVXXXX LSXXXSXARXXXXXGXXSNXRGX GXFXXXXXLLVGXGGWDXXXVXS XXXXXXAXSXXRXXGXXAXGVXR XF
Human hGIT1_v4	11	prey19333	750	CGGGAAGCACGTACCCAAGTCAGGGGCGAAGCTGGACGCGGCCGGCCTGCACCA CCACCGACACGTCCACCACCACGTCCACCACAGCACAGCCCGGCCCAAGGAGCA GGTGGAGGCCGAGGCCACCCGCAGGGCCCAGAGCAGCTTCGCCTGGGGCCTGGA ACCACACAGCCATGGGGCAAGGTCCCGAGGCTACTCAGAGAGTGTTGGCGCTGC CCCCAACGCCAGTGATGGCCTCGCCCACAGTGGGAAGGTGGGCGTGGCGTGCAA AAGAAATGCCAAGAAGGCTGAGTCGGGGAAGAGCGCCAGCACCGAGGTGCCAGG TGCCTCGGAGGATGCGGAGAAGAACCAGAAAATCATGCAGTGGATCATTGAGGG GGAAAAGGAGATCAGCAGGCACCGCAGGACCGGCCACGGGTCTTCGGGGACGAG GAAGCCACAGCCCCATGAGAACTCCAGACCCTTGTCCCTTGAGCACCCCTGGGC CGGCCCTCAGCTCCGGACCTCCGTGCAGCCCTCCCACCTCTTCATCCAAGACCC CACCATGCCACCCCACCCAGCTCCCAACCCCCTAACCCAGCTGGAGGAGGCGCG CCGACGTCTGGAGGAGGAAGAAAAGAGAGCCAGCCGAGCACCCTCCAAGCAGAG GTATGTGCAGGAGGTTATGCGGCGGGGACGCGCCTGCGTCAGGCCAGCGTGCGC GCCGGTGCTGCACGTGGTACCAGC	1488	GKHVPKSGAKLDAAGLHHHRHVH HHVHHSTARPKEQVEAEATRRAQ SSFAWGLEPHSHGARSRGYSESV GAAPNASDGLAHSGKVGVACKRN AKKAESGKSASTEVPGASEDAEK NQKIMQWIIEGEKEISRHRRTGH GSSGTRKPQPHENSRPLSLEHPW AGPQLRTSVQPSHLFIQDPTMPP HPAPNPLTQLEEARRRLEEEEKR ASRAPSKQRYVQEVMRRGRACVR PACAPVLHVVP
Human hGIT1_v4	11	prey1264	751	CCACACAGGAGAGAGGCCCTATGGTTGTCGTGAGTGTGGGAAAGCCTTCAGCCA GCAGTCGCAGCTGGTTAGACACCAGAGAACTCACACTGGGGAGAGGCCCTACCC TTGCAAGGAGTGTGGGAAGGCCTTCAGCCAGAGCTCCACCCTAGCCCAGCATCA AAGGATGCATACTGGGGAGAAAGCTCAAATTCTAAAAGCCTCAGACAGTCCAAG CCTTGTTGCACATCAGAGAATTCACGCTGTAGAGAAACCATTTAAGTGTGATGA	1489	HTGERPYGCRECGKAFSQQSQLV RHQRTHTGERPYPCKECGKAFSQ SSTLAQHQRMHTGEKAQILKASD SPSLVAHQRIHAVEKPFKCDECG KAFRWISRLSQHQLIHTGEKPYK

				GTGTGGGAAAGCTTTTAGGTGGATCTCTCGCCTGAGTCAGCATCAGCTGATTCA CACTGGAGAGAAGCCTTATAAATGCAACAAGTGTACAAAAGCCTTTGGTTGTAG TTCACGGCTTATTCGCCATCAGAGAACTCACACTGGAGAAAAACCATTTAAATG TGATGAGTGTGGCAAAGGCTTTGTTCAGGGCTCACACCTTATTCAGCATCAGCG AATCCACACTGGAGAGAAACCCTATGTGTGTAATGACTGTGGAAAAGCCTTCAG TCAGAGTTCCAGCCTTATTTACCATCAGAGAATCCATAAAGGAGAGAAGCCCTA CGAATGCCTCCAATGCGGAAAAGCCTTCAGTATGAGCACACAGCTTACAATACA TCAAAGGGTTCACACTGGAGAGAGGCCCTATAAATGTAATGAATGTGGGAAAGC CTTCAGTCAAAACTCAACCCTTTTCCAACACCAGATAATTCATGCAGGGGTGAA GCCCTATGAGTGCAGTGAGTGTGGAAAAGCCTTCAGCCGGAGCTCATATCTTAT TGAACACCAGAGAATACACACTAGGGCCCA		CNKCTKAFGCSSRLIRHQRTHTG EKPFKCDECGKGFVQGSHLIQHQ RIHTGEKPYVCNDCGKAFSQSSS LIYHQRIHKGEKPYECLQCGKAF SMSTQLTIHQRVHTGERPYKCNE CGKAFSQNSTLFQHQIIHAGVKP YECSECGKAFSRSSYLIEHQRIH TRA
Human hGIT1_v4	11	prey19340	752	ATGCATGCTTTTGAAAACTTAGAGAAAAGAAAGAAGCGGCGGGATCAGCCCTTG GAACAGAGCAACTCTGATGTAGAGATTACTACAACCACCTCAGAGACTCCTGTT GGTGAAGAGACAAAAACTGAAGCCCCTGAATCTGAAGTTAGCAACTCTGTTTCA AATGTTACCATCCCAAGCACCCCACAGAGTGTTGGTGTGAATACCCGGAGGTCT TCCCAAGCAGGGGATATTGCTGCAGAAAAACTAGTCCCCAAGCCACCTCCAGCA AAGCCTTCTAGGCCCCGGCCGAAGAGTCGAATTTCTCGGTACAGGACCAGTTCA GCCCAAAGACTAAAGCGTCAGAAGCAGGCCAATGCACAGCAGGCAGAATTGTCA CAAGCTGCCTTGGAAGAGGGAGGAAGTAACAGTTTAGTAACTCCTACTGAAGCT GGAAGTCTAGACAGTTCAGGAGAAAACAGGCCATTAACAGGGTCTGACCCAACT GTGGTGTCAATTACTGGATCCCATGTCAACCGTGCTGCATCTAAATACCCCAAA ACCAAAAAGTATCTAGTTACAGAATGGTTGAATGACAAAGCAGAGAAGCAAGAG TGCCCTGTTGAGTGCCCTTTACGTATCACAACGGATCCAACTGTACTGGCAACG ACCCTAAACATGTTACCAGGTCTTATCCATTCCCCGTTAATTTGCACCACCCCC AAACACTACATTCGCTTTGGCTCACCCTTTATCCCTGAGAGACGTCGAAGGCCC CTTCTGCCTGATGGCACATTCAGCCCCTGTAAGAAGCGCTGGATAAAACAAGCC TTAGAAGAAGGGATGACTCAAACATCATCTGTACCCCAAGAGACTAGAACTCAG CACCTATACCAAAGCAATGAGAATAGTAGCTCTTCTAGTATCTGCAAAGACAAT GCAGACTTGTTGAGCCCATTAAAGAAATGGAAGTCTCGCTATCTGATGGAGCAG AATGTCACCAAGTTACTTCGGCCTCTGTCTCCAGTCACACCACCCCCTCCCAAT TCAGGCTCAAAGAGTCCCCAGCTGGCCACACCTGGCTCATCTCACCCAGGAGAA GAGGAGTGTCGAAATGGATACAGCCTCATGTTTTCACCAGTCACATCTCTTACT ACTGCTAGTCGCTGCAACACTCCTCTACAGTTTGAGCTTTGTCACCGAAAAGAC CTGGATTTGGCAAAAGTAGGATACCTTGACTCCAACACTAACAGCTGTGCTGAT AGACCTTCCCTACTCAACTCAGGTCATTCTGACCTGGCTCCTCATCCCTCCCTC GGACCCACTTCTGAGACTGGTTTCCCAAGCAGAAGTGGAGATGGACATCAGACC CTCGTGAGAAACTCAGACCAGGCATTTCGGACAGAGTTCAACTTGATGTATGCC TACTCCCCTTTGAATGCTATGCCTCGAGCAGATGGACTGTATCGAGGATCTCCT CTAGTGGGGGATAGGAAGCCTTTACATTTGGATGGGGGATATTGTTCCCCTGCA	1490	MHAFENLEKRKKRRDQPLEQSNS DVEITTTTSETPVGEETKTEAPE SEVSNSVSNVTIPSTPQSVGVNT RRSSQAGDIAAEKLVPKPPPAKP SRPRPKSRISRYRTSSAQRLKRQ KQANAQQAELSQAALEEGGSNSL VTPTEAGSLDSSGENRPLTGSDP TVVSITGSHVNRAASKYPKTKKY LVTEWLNDKAEKQECPVECPLRI TTDPTVLATTLNMLPGLIHSPLI CTTPKHYIRFGSPFIPERRRRPL LPDGTFSPCKKRWIKQALEEGMT QTSSVPQETRTQHLYQSNENSSS SSICKDNADLLSPLKKWKSRYLM EQNVTKLLRPLSPVTPPPPNSGS KSPQLATPGSSHPGEEECRNGYS LMFSPVTSLTTASRCNTPLQFEL CHRKDLDLAKVGYLDSNTNSCAD RPSLLNSGHSDLAPHPSLGPTSE TGFPSRSGDGHQTLVRNSDQAFR TEFNLMYAYSPLNAMPRADGLYR GSPLVGDRKPLHLDGGYCSPAEG FSSRYEHGLMKDLSRGSLSPGGE RACEGVPSAPQNPPQRKKVSLLE YRKRKQEAKENSAGGGDSAQSK SKSAGAGQGSSNSVSDTGAHGVQ GSSARTPSSPHKKFSPSHSSMSH LEAVSPSDSRGTSSSHCRPQENI

				GAAGGATTTTCCAGCAGATATGAACATGGCTTAATGAAAGACCTCTCTCGTGGA TCCTTGTCACCTGGTGGTGAAAGGGCCTGTGAAGGAGTCCCATCTGCCCCCCAG AACCCACCACAGAGGAAAAAAGTATCCCTGCTGGAGTACCGAAAACGGAAACAA GAAGCTAAGGAAAATTCTGCTGGTGGGGGAGGTGACTCTGCACAGAGCAAAAGC AAGTCTGCAGGAGCTGGGCAAGGCAGCAGTAACTCCGTTTCCGACACCGGTGCC CATGGTGTGCAGGGATCCTCAGCCCGAACTCCATCTTCCCCTCACAAAAAATTC TCCCCATCTCATTCCTCTATGTCCCATTTGGAGGCGGTAAGCCCATCAGATTCC AGAGGCACTTCTTCATCTCACTGCAGACCTCAAGAGAATATCAGCAGTAGGTGG ATGGTTCCCACATCAGTAGAACGACTCCGAGAAGGAGGGAGCATCCCCAAGGTC CTCCGAAGCAGCGTGAGGGTGGCCCAAAAGGGAGAGCCCTCTCCCACATGGGAG AGTAACATCACAGAGAAAGACTCAGACCCTGCAGATGGAGAAGGCCCAGAGACA TTAAGCTCAGCACTCTCTAAAGGAGCAACAGTTTACAGCCCTTCCAGATACAGC TACCAGCTCCTGCAGTGTGATAGTCCTCGGACAGAATCACAAAGCCTCCTTCAG CAGAGTTCCTCCCCCTTCAGAGGACATCCTACACAGTCTCCAGGATACAGTTAT CGAACTACTGCACTGAGACCTGGAAACCCCCCCTCTCACGGTTCTTCAGAATCA TCCCTCTCTTCCACGTCCTATTCCAGCCCCGCCCACCCTGTGTCCACAGACTCG TTGGCCCCATTTACGGGGACACCAGGGTATTTTAGCAGCCAGCCACATTCTGGA AACAGCACTGGCAGCAATCTTCCAAGGAGGAGCTGCCCTTCTAGTGCTGCTAGC CCTACCCTGCAGGGACCCTCAGACTCGCCAACCTCAGATTCAGTTTCTCAGTCC AGCACAGGAACTCTGAGTTCCACCTCCTTTCCTCAGAACTCTAGGTCGTCATTG CCATCAGACTTACGGACTATCAGTCTGCCCAGTGCTGGGCAGTCAGCTGTCTAC CAGGCCTCCAGGGTATCTGCGGTTTCCAATTCACAGCACTACCCACACCGTGGG AGTGGGGGTGTGCACCAGTACCGACTCCAGCCACTGCAAGGGTCAGGAGTCAAG ACTCAGACGGGACTTTCCTAG		SSRWMVPTSVERLREGGSIPKVL RSSVRVAQKGEPSPTWESNITEK DSDPADGEGPETLSSALSKGATV YSPSRYSYQLLQCDSPRTESQSL LQQSSSPFRGHPTQSPGYSYRTT ALRPGNPPSHGSSESSLSSTSYS SPAHPVSTDSLAPFTGTPGYFSS QPHSGNSTGSNLPRRSCPSSAAS PTLQGPSDSPTSDSVSQSSTGTL SSTSFPQNSRSSLPSDLRTISLP SAGQSAVYQASRVSAVSNSQHYP HRGSGGVHQYRLQPLQGSGVKTQ TGLS*
Human hGIT1_v4	11	prey2010	753	CAAGACGCGGCTGCAGCAGGAGCTGGACGACCTGCTGGTGGACCTGGACCACCA GCGCCAGAGCGCGTGCAACCTGGAGAAGAAGCAGAAGAAGTTTGACCAGCTCCT GGCGGAGGAGAAGACCATCTCTGCCAAGTATGCAGAGGAGCGCGACCGGGCTGA GGCGGAGGCCCGAGAGAAGGAGACCAAGGCTCTGTCGCTGGCCCGGGCCCTGGA GGAAGCCATGGAGCAGAAGGCGGAGCTGGAGCGGCTCAACAAGCAGTTCCGCAC GGAGATGGAGGACCTTATGAGC	1491	KTRLQQELDDLLVDLDHQRQSAC NLEKKQKKFDQLLAEEKTISAKY AEERDRAEAEAREKETKALSLAR ALEEAMEQKAELERLNKQFRTEM EDLMS
Human hGIT1_v4	11	prey24334	754	ACTGGGTCACTNCNCCCATCGTCTCCGCNGTCTGNACCATGGNAGNCCCTGNAC CNACTCNGGNNCTNNNTCTCNAGNAATNCACCGCCAGGNTCNTCTGACGGATGG CATTTTNNGAGTGTATNCTNGCANCTTCCATGTTGCCCAGTGCTGAATGGCCNT NTNAANNCNGNCCGATTCGNCCNCNTCATCCTNNNANNNGTTATGAGGCACTCG CTACTCAGTTCNTTGGNCGCNAACTTCAGGNAGAACAGNTGTTTCAGCCATGTN ATACAGAGNNGNCNGGNTCCTTNANGTCNANGGNCCNNATGAGAAGNGNNCCGA AGGCANATGAAGGTAAGGNAANANCNATANNGACNGC	1492	TGSLXPSSPXSXPWXXLXXLXXX XSXNXPPGSSDGWHFXSVXXXLP CCPVLNGXXXXXRFXXXILXXVM RHSLLSSLXANFRXNXCFSHVIQ XXXXPXXXXXX*EXXRRXMKVRX XXXXX
Human hGIT1_v4	11	prey16529	755	CCTGGCTGCCTCCTATGACACCAATGGCCTTAGCCAGCCCCCACTTCCTGAGAA ACGCCACCTGCCCGGGCCGGGGCAACAGCCAGGACCCTGGGGCCCAGAGCAGGC	1493	LAASYDTNGLSQPPLPEKRHLPG PGQQPGPWGPEQASSPARGISHH

				ATCATCGCCAGCCAGAGGCATCAGTCACCATGTCACCTTCGCACCTCTGCTCTC AGATAATGTCCCCCAAACCCCAGAGCCTCCTACACAAGAGAGCCAAAGCAATGT CAAGTTTGTCCAGGATACATCCAAGTTCTGGTACAAGCCACACCTGTCCCGTGA CCAAGCCATTGCCCTGCTGAAGGACAAGGACCCTGGGGCCTTCCTGATCAGGGA CAGTCATTCATTCCAAGGAGCTTATGGGCTGGCCCTCAAGGTGGCCACACCGCC ACCCAGTGCCCAGCCCTGGAAAGGGGACCCCGTGGAACAGCTGGTCCGCCATTT CCTCATCGAGACTGGGCCCAAAGGGGTGAAGATCAAGGGCTGCCCCAGTGAGCC CTACTTTGGCAGCCTGTCCGCCTTGGTCTCCCAGCACTCCATCTCCCCCATCTC CCTGCCCTGCTGCCTGCGCATTCCCAGCAAAGATCCTCTGGAAGAGACCCCAGA GGCTCCAGTGCCCACCAACATGAGCACAGCGGCAGACCTCCTGCGTCAGGGTGC TGCCTGCAGCGTGCTCTACTTGACCTCAGTGGAGACAGAGTCACTGACGGGCCC CCAAGCTGTGGCCCGGGCCAGCTCTGCAGCTCTGAGCTGTAGCCCCCGCCCGAC ACCAGCTGTTGTCCACTTCAAGGTGTCAGCCCAGGGCATTACACTGACGGACAA CCAAAGGAAGCTCTTCTTTCGCCGCCA		VTFAPLLSDNVPQTPEPPTQESQ SNVKFVQDTSKFWYKPHLSRDQA IALLKDKDPGAFLIRDSHSFQGA YGLALKVATPPPSAQPWKGDPVE QLVRHFLIETGPKGVKIKGCPSE PYFGSLSALVSQHSISPISLPCC LRIPSKDPLEETPEAPVPTNMST AADLLRQGAACSVLYLTSVETES LTGPQAVARASSAALSCSPRPTP AVVHFKVSAQGITLTDNQRKLFF RR
Human hGIT1_v4	11	prey24338	756	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNGATTATTTTGAAATAAAATTAAATATGTATTTAGA	1494	XXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXLF*NKIKYV FR
Human hGIT1_v4	11	prey19172	757	ACAGATAAAACGGCGCTATACTAATCCAATAGGACGTCCAAAAAACAGGTTAAA GAAACAAAACACGGTATCAAAAGGTCCCTTCAGCAAAGTTCGAACTGGCCCTGG AAGGGGTAGGAAACGAAAAATCACTCTTTCCAGCCAATCAGCATCATCATCATC AGAAGAAGGATATTTAGAGCGGATAGATGGCTTGGACTTCTGCAGAGATAGCAA TGTCTCCTTGAGGTTCAACAAGAAAACCAAAGGGCTCATTGATGGCCTTACCAA ATTTTTTACCCCTTCCCCTGATGGGCGGAAAGCTCGGGGGGAAGTGGTGGACTA CTCTGAGCAATATCGAATCAGAAAGAGGGGCAACAGGAAATCAAGCACTTCAGA TTGGCCCACAGACAATCAGGATGGCTGGGATGGCAAACAAGAAAATGAGGAGCG ACTTTTTGGGAGCCAGGAAATCATGACTGAGAAAGATATGGAATTATTTCGTGA TATCCAAGAACAAGCACTGCAGAAAGTTGGAGTGACTGGTCCCCCTGATCCACA AGTCCGCTGTCCCTCTGTCATTGAGTTTGGGAAGTATGAAATTCACACCTGGTA CTCCTCCCCATATCCTCAAGAATACTCAAGGCTGCCCAA	1495	QIKRRYTNPIGRPKNRLKKQNTV SKGPFSKVRTGPGRGRKRKITLS SQSASSSSEEGYLERIDGLDFCR DSNVSLRFNKKTKGLIDGLTKFF TPSPDGRKARGEVVDYSEQYRIR KRGNRKSSTSDWPTDNQDGWDGK QENEERLFGSQEIMTEKDMELFR DIQEQALQKVGVTGPPDPQVRCP SVIEFGKYEIHTWYSSPYPQEYS RLP
Human hGIT1_v4	11	prey24257	758	NNNGGNGTGGGGCNGTNATTTCTANANCTCCCTTTTTGACTTATNNTNTNACCT TNAAAACACTGGCGATTTTTGCTATCCTTATCCTNCGACCCGCTGGNGGGGCAN ANGAANCTNNCNTGNAANCNGGANACCTTGGNCAGNNNCGANCTGCCCTTNANC AACTATTTTTTTATTTCNGGNCNACTGCTNTGGANGCCNNCTACCNGGGGNATT TCCCGGGGGGACAANTTGCNNAGCCCTTCCCNCAACCTTCCTGGTNTTAAGGTG CCCAGGGTGAAGAANCNCCACNCCTNNCNGGTCTGTACTNNNTTANCNGGCCCN TNNTGGNTCNNGGTNNNGATTNACCCNTGNTTNTCCNTNTNCCNGGNATCTGCG GCGGTNGGNANNGNNGGNGGGTNGGGGGTGGTGGGGGGGGGGGGGGCNGGGGG GGGGG	1496	XGVGXXFLXLPF*LXXXPXKHWR FLLSLSXDPLXGXXXLXXXXXTL XXXXLPXXNYFFISGXLLWXPXT XGISRGDXLXSPSXNLPGXKVPR VKXXHXXXVCTXLXGPXWXXVXI XPXXSXXXXSAAVGXXGGXGVVG GGGGXGG
Human	11	prey24259	759	AAAGAGGCTGAGCCAGAGAAGAGGCCAAAGAAAGTCTCACAGATTCGCATCCGG	1497	KEAEPEKRPKKVSQIRIRKTIPR

hGIT1_v4				AAAACCATTCCTAGGCCAGATCCTAATCTTACCCCCATGGGCCTTCCTCGACCC AAAAGGTTAAAGAAGAAGGAGTTTAGTTTAGAAGAGATATATACCAACAAGAAT TATAAATCTCCTCCTGCAAACAGGTGTTTAGAGACCATCTTTGAGG		PDPNLTPMGLPRPKRLKKKEFSL EEIYTNKNYKSPPANRCLETIFE
Human hGIT1_v4	11	prey4114	760	ATGGCAGCCCCTGCGCAGCCCAAGAAGATCGTGGCCCCTACGGTGTCCCAAATC AATGCGGAGTTCGTGACCCAGTTAGCATGTAAATACTGGGCTCCCCACATCAAG AAGAAATCACCTTTTGATATAAAGGTTATTGAAGATATATATGAAAAAGAGATT GTCAAATCAAGGTTTGCTATTAGAAAGATAATGCTCTTGGAATTTAGCCAGTAT CTTGAAAATTATCTCTGGATGAATTATTCTCCTGAGGTATCTAGCAAGGCCTAT TTAATGTCAATCTGCTGTATGGTGAATGAGAAGTTTAGAGAAAACGTGCCTGCA TGGGAGATTTTTAAGAAGAAGCCAGACCACTTCCCATTCTTTTTAAACACATC TTGAAGGCGGCATTAGCTGAAACTGATGGTGAATTTTCACTTCATGAACAGACA GTCTTACTACTTTTTCTTGATCATTGCTTCAATAGTTTGGAAGTAGACTTGATA CGAAGTCAAGTACAGCAGCTTATCTCCCTCCCAATGTGGATGGGCTTACAGCTG GCACGATTGGAATTAGAATTAAAAAAG	1498	MAAPAQPKKIVAPTVSQINAEFV TQLACKYWAPHIKKKSPFDIKVI EDIYEKEIVKSRFAIRKIMLLEF SQYLENYLWMNYSPEVSSKAYLM SICCMVNEKFRENVPAWEIFKKK PDHFPFFFKHILKAALAETDGEF SLHEQTVLLLFLDHCFNSLEVDL IRSQVQQLISLPMWMGLQLARLE LELKK
Human hGIT1_v4	11	prey19193	761	AATGCACACTCCACCTGTCCTGAAGAAAATCATCAAGGAACAGCCTCAACCATC AGGAAAACAAGAGTCAGGTTCAGAAATCCATGTGGAAGTGAAGGCACAAAGCTT GGTTATAAGCCCTCCAGCTCCTAGTCCTAGGAAAACTCCAGTTGCCAGTGATCA ACGCCGTAGGTCCTGCAAAACAGCCCCTGCTTCCAGCAGCAAATCTCAGACAGA GGTTCCTAAGAGAGGAGGAGAAAGAGTGGCAACCTGCCTTCAAAAGAGAGTGTC TATCAGCCGAAGTCAACATGATATTTTACAGATGATATGTTCCAAAAGAAGAAG TGGTGCTTCGGAAGCAAATCTGATTGTTGCAAAATCATGGGCAGATGTAGTAAA ACTTGGTGCAAAACAAACACAAACTAAAGTCATAAAACATGGTCCTCAAAGGTC AATGAACAAAAGGCAAAGAAGACCTGCTACTCCAAAGAAGCCTGTGGGCGAAGT TCACAGTCAATTTAGTACAGGCCACGCAAACTCTCCTTGTACCATAATAATAGG GAAAGCTCATACTGAAAAAGTACATGTGCCTGCTCGACCCTACAGAGTGCTCAA CAACTTCATTTCCAACCAAAAAATGGACTTTAAGGAAGATCTTTCAGGAATAGC TGAAATGTTCAAGACCCCAGTGAAGGAGCAACCGCAGTTGACAAGCACATGTCA CATCGCTATTTCAAATTCAGAGAATTTGCTTGGAAAACAGTTTCAAGGAACTGA TTCAGGAGAAGAACCTCTGCTCCCCACCTCAGAGAGTTTTGGAGGAAATGTGTT CTTCAGTGCACAGAATGCAGCAAAACAGCCATCTGATAAATGCTCTGCAAGCCC TCCCTTAAGACGGCAGTGTATTAGAGAAAATGGAAACGTAGCAAAAACGCCCAG GAACACCT	1499	MHTPPVLKKIIKEQPQPSGKQES GSEIHVEVKAQSLVISPPAPSPR KTPVASDQRRRSCKTAPASSSKS QTEVPKRGGERVATCLQKRVSIS RSQHDILQMICSKRRSGASEANL IVAKSWADVVKLGAKQTQTKVIK HGPQRSMNKRQRRPATPKKPVGE VHSQFSTGHANSPCTIIIGKAHT EKVHVPARPYRVLNNFISNQKMD FKEDLSGIAEMFKTPVKEQPQLT STCHIAISNSENLLGKQFQGTDS GEEPLLPTSESFGGNVFFSAQNA AKQPSDKCSASPPLRRQCIRENG NVAKTPRNT
Human hGIT1_v4	11	prey17778	762	GGAGAAGCAACTGGAAAAGCAGCGGGAGCTAGAACGGCAGAGAGAGGAGGAGAG GAGGAAAGAAATTGAGAGGCGAGAGGCTGCAAAACGGGAACTTGAAAGGCAACG ACAACTTGAGTGGGAACGGAATCGAAGGCAAGAACTACTAAATCAAAGAAACAA AGAACAAGAGGACATAGTTGTACTGAAAGCAAAGAAAAAGACTTTGGAATTTGA ATTAGAAGCTCTAAATGATAAAAAGCATCAACTAGAAGGGAAACTTCAAGATAT CAGATGTCGATTGACCACCCAAAGGCAAGAAATTGAGAGCACAAACAAATCTAG AGAGTTGAGAATTGCCGAAATCACCCATCTACAGCAACAATTACAGGAATCTCA	1500	EKQLEKQRELERQREEERRKEIE RREAAKRELERQRQLEWERNRRQ ELLNQRNKEQEDIVVLKAKKKTL EFELEALNDKKHQLEGKLQDIRC RLTTQRQEIESTNKSRELRIAEI THLQQQLQESQQMLGRLIPEKQI LNDQLKQVQQNSLHRDSLVTLKR

				GCAAATGCTTGGAAGACTTATTCCAGAAAAACAGATACTCAATGACCAATTAAA ACAAGTTCAGCAGAACAGTTTGCACAGAGATTCACTTGTTACACTTAAAAGAGC CTTAGAAGCAAAAGAACTAGCTCGGCAGCACCTACGAGACCAACTGGATGAAGT GGAGAAAGAAACTAGATCAAAACTACAGGAGATTGATATTTTCAATAATCAGCT GAAGGAACTAAGAGAAATACACAATAAGCAACAACTCCAGAAGCAAAAGTCCAT GGAGGCTGAACGACTGAAACAGAAAGAAC		ALEAKELARQHLRDQLDEVEKET RSKLQEIDIFNNQLKELREIHNK QQLQKQKSMEAERLKQKE
Human hGIT1_v4	11	prey24288	763	TTAAAAAGAAATCCAAAGAGAAAAAAGGATNATGAGGAAGTTGTGTTGTCAGAA AATAAGGTTNGAAACNCAGCGAAAAAAAATNANAATCATCTGAAAGATNTGTCT TTTTGAANGGACAAACCNNGCNCACTTACCTTA	1501	LKRNPKRKKDXEEVVLSENKVXN XAKKNXNHLKDXSF*XDKPXXLT L
Human hGIT1_v4	11	prey24265	764	ATGGATCGGGGCCGAGGCAGGGCGCAGCGTGGGAAGAGGCACGATCTGGCGCCC ACCAAGCGCAGTCGAAAGAAGATGGCGGCGCTGGAGTGTGAGGACCCGGAGCGA GAGCTGAAGAAGCAGAAGCGGGCAGCCCGCTTCCAGCACGGACACTCCCGCCGC CTGCGCCTCGAGCCCCTGGTGCTGCAGATGAGCAGCCTGGAGAGCAGTGGGGCT GACCCTGACTGGCAGGAGCTGCAGATCGTGGGCACCTGCCCTGACATCACCAAG CACTACCTGCGCCTCACCTGTGCCCCCGACCCGTCCACCGTGCGCCCTGTGGCA GTTTTGAAAAAGTCGCTGTGCATGGTCAAGTGCCACTGGAAAGAGAAAGCAGGAC TACGCGTTTGCCTGCGAGCAGATGAAGTCGATCCGGCAGGATCTGACGGTGCAG GGCATCCGCACCGAGTTCACGGTGGAGGTGTACGAGACCCATGCCCGGATCGCC TTGGAGAAGGGTGACCATGAAGAGTTTAACCAGTGCCAGACGCAGCTCAAGTCG CTGTACGCCGAGAACTTGCCTGGCAATGTGGGCGAGTTTACTGCCTACCGAATC CTCTACTACATCTTCACCAAGAACTCGGGAGACATCACCACGGAGCTGGCATAC CTCACNCGAGAACTGAAGGCAGATCCTTGCGTGGCCCACGCCTTGGCATTAAGG ACAGCCTGGGCCCTGGGCAACTACCACCGCC	1502	MDRGRGRAQRGKRHDLAPTKRSR KKMAALECEDPERELKKQKRAAR FQHGHSRRLRLEPLVLQMSSLES SGADPDWQELQIVGTCPDITKHY LRLTCAPDPSTVRPVAVLKKSLC MVKCHWKEKQDYAFACEQMKSIR QDLTVQGIRTEFTVEVYETHARI ALEKGDHEEFNQCQTQLKSLYAE NLPGNVGEFTAYRILYYIFTKNS GDITTELAYLTRELKADPCVAHA LALRTAWALGNYHR
Human hGIT1_v4	11	prey2033	765	GAGAGGGAAGGAACTTGAAGTCAAGAACCTTCTGGAGAAAGGCAAGACTGAACA GCAGACCGCAGACCAACTCCTAGCCCGAGCTGATGCTGCCAAGGCCCTCGCTGA AGAAGCTGCAAAGAAGGGACGGGATACCTTACAAGAAGCTAATGACATTCTCAA CAACCTGAAAGATTTTGATAGGCGCGTGAACGATAACAAGACGGCCGCAGAGGA GGCACTAAGGAAGATTCCTGCCATCAACCAGACCATCACTGAAGCCAATGAAAA GACCAGAGAAGCCCAGCAGGCCCTGGGCAGTGCTGCGGCGGATGCCACAGAGGC CAAGAACAAGGCCCATGAGGCGGAGAGGATCGCAAGCGCTGTCCAAAAGAATGC CACCAGCACCAAGGCAGAAGCTGAAAGAACTTTTGCAGAAGTTACAGATCTGGA TAATGAGGTGAACAATATGTTGAAGCAACTGCAGGAAGCAGAAAAAGAGCTAAA GAGAAAACAAGATGACGCTGACCAGGACATGATGATGGCAGGGATGGCTTCACA GGCTGCTCAAGAAGCCGAGATCAATGCCAGAAAAGCCAAAAACTCTGTTACTAG CCTCCTCAGCATTATTAATGACCTCTTGGAGCAGCTGGGGCAGCTGGATACAGT GGACCTGAATAAGCTAAACGAGATTGAAGGCACC	1503	RGKELEVKNLLEKGKTEQQTADQ LLARADAAKALAEEAAKKGRDTL QEANDILNNLKDFDRRVNDNKTA AEEALRKIPAINQTITEANEKTR EAQQALGSAAADATEAKNKAHEA ERIASAVQKNATSTKAEAERTFA EVTDLDNEVNNMLKQLQEAEKEL KRKQDDADQDMMMAGMASQAAQE AEINARKAKNSVTSLLSIINDLL EQLGQLDTVDLNKLNEIEGT
Human hGIT1_v4	11	prey19218	766	CGGCGGGGGCCTGGAGCCCGCGGCCGTGGCCCGCGACCTATTGAGGGGCACATC TAACATGTCATTTGAGGAGCTGTTGGAATTGCAGAGCCAAGTGGGGACTAAGAC GTACAAACAATTGGTAGCTGGAAATAGTCCTAAGAAACAAGCTTCTAGACCACC	1504	GGGLEPAAVARDLLRGTSNMSFE ELLELQSQVGTKTYKQLVAGNSP KKQASRPPIQNACVADKHRPLEM

				TATCCAAAATGCATGTGTTGCAGATAAGCACAGGCCTCTGGAAATGTCAGCCAA GATCCGAGTACCATTTTTACGTCAGGTTGTTCCCATTAGTAAAAGGTAGCCCG GGACCCTCGCTTTGATGATCTGTCAGGGGAATATAATCCTGAGGTGTTTGACAA AACATACCAATTCTTGAATGACATCCGAGCGAAAGAGAAAGAGCTTGTGAAAAA ACAGTTGAAGAAGCACCTTTCAGGAGAGGAGCATGAGAAACTGCAGCAACTGCT TCAGCGAATGGAGCAGCAAGAAATGGCACAGCAGGAACGAAAGCAACAGCAGGA GCTGCACCTGGCCCTGAAGCAAGAACGTCGGGCTCAGGCCCAGCAGGGCCATCG GCCATACTTCCTGAAAAAATCTGAGCAGCGCCAGTTGGCACTAGCTGAGAAGTT CAAGGAGCTGAAACGCAGCAAGAAATTGGAGAACTTCTTGAGTCGAAAGAGGCG ACGAAATGCAGGCAAGGA		SAKIRVPFLRQVVPISKKVARDP RFDDLSGEYNPEVFDKTYQFLND IRAKEKELVKKQLKKHLSGEEHE KLQQLLQRMEQQEMAQQERKQQQ ELHLALKQERRAQAQQGHRPYFL KKSEQRQLALAEKFKELKRSKKL ENFLSRKRRRNAGK
Human hGIT1_v4	11	prey4211	767	ATGGGGTTCCTGAAACTGATTGAGATTGAGAACTTTAAGTCGTACAAGGGTCGA CAGATTATCGGACCATTTCAGAGGTTCACCGCCATCATTGGACCCAATGGCTCT GGTAAGTCAAATCTCATGGATGCCATCAGCTTTGTGCTAGGTGAAAAAACCAGC AACCTGCGGGTAAAGACCCTGCGGGACCTGATCCATGGAGCTCCTGTGGGCAAG CCAGCTGCCAACCGGGCCTTTGTCAGCATGGTCTACTCTGAGGAGGGTGCTGAG GACCGTACCTTTGCCCGTGTCATTGTAGGAGGTTCTTCTGAGTACAAGATCAAC AACAAAGTGGTCCAACTACATGAGTACAGTGAGGAATTAGAGAAGTTGGGCATT CTCATCAAAGCTCGTAACTTCCTCGTTTTCCAGGGTGCTGTGGAATCTATTGCC ATGAAGAACCCCAAAGAGAGGACAGCTCTATTTGAAGAGATTAGTCGTTCTGGG GACGTGGCGCAGGAGTATGACAAGCGAAAGAAGGAAATGGTGAAGGCTGAAGAG GACACACAGTTTAATTACCATCGCAAGAAAAATATTGCGGCTGAACGCAAGGAA GCAAAGCAGGAGAAAGAAGAGGCTGACCGGTACCAGCGCCTGAAGGATGAGGTA GTACGGGCTCAGGTACAGCTGCAGCTCTTTAAGCTTTACCATAATGAAGTGGAA ATTGAGAAGCTCAACAAGGAACTGGCCTCAAAGAACAAGGAGATCGAGAAGGAC AAGAAGCGTATGGACAAGGTGGAGGATGAACTGAAGGAGAAGAAGAAGGAGCTG GGCAAAATGATGCGGGAGCAGCAGCAGATTGAGAAGGAGATCAAGGAGAAGGAC TCAGAATTGAACCAGAAGCGGCCTCAGTACATCAAAGCCAAGGAGAACACCTCC CACAAAATCAAGAAGCTGGAAGCAGCCAAGAAGTCTCTGCAGAATGCTCAGAAG CACTACAAGAAGCGTAAAGGTGACATGGATGAGCTGGAGAAGGAGATGCTGTCA GTGGAGAAGGCTCGGCAGGAGTTTGAAGAACGGATGGAAGAAGAGAGTCAGAGT CAGGGCAGAGATTTGACGTTGGAGGAGAATCAGGTGAAGAAATACCACCGGTTG AAAGAAGAAGCCAGCAAGAGAGCAGCTACCCTGGCCCAGGAGCTGGAGAAATTC AATCGAGACCAGAAAGCTGACCAGGACCGTCTGGATCTGGAAGAACGGAAGAAA GTAGAGACAGAGGCCAAGATCAAGCAAAAGCTGCGGGAAATTGAAGAGAATCAG AAGCGGATTGAGAAACTGGAGGAATACATCACCACTAGCAAGCAGTCCCTAGAA GAGCAGAAGAAGCTAGAGGGGGAGCTGACAGAGGAGGTGGAGATGGCCAAGCGG CGTATTGATGAAATCAATAAGGAGCTGAACCAGGTGATGGAGCAGCTAGGGGAT GCCCGCATCGACCGCCAGGAGAGCAGCCGCCAGCAGCGAAAGGCAGAGATAATG GAAAGCATCAAGCGCCTTTACCCTGGCTCTGTGTACGGCCGCCTCATTGACCTA	1505	MGFLKLIEIENFKSYKGRQIIGP FQRFTAIIGPNGSGKSNLMDAIS FVLGEKTSNLRVKTLRDLIHGAP VGKPAANRAFVSMVYSEEGAEDR TFARVIVGGSSEYKINNKVVQLH EYSEELEKLGILIKARNFLVFQG AVESIAMKNPKERTALFEEISRS GDVAQEYDKRKKEMVKAEEDTQF NYHRKKNIAAERKEAKQEKEEAD RYQRLKDEVVRAQVQLQLFKLYH NEVEIEKLNKELASKNKEIEKDK KRMDKVEDELKEKKKELGKMMRE QQQIEKEIKEKDSELNQKRPQYI KAKENTSHKIKKLEAAKKSLQNA QKHYKKRKGDMDELEKEMLSVEK ARQEFEERMEEESQSQGRDLTLE ENQVKKYHRLKEEASKRAATLAQ ELEKFNRDQKADQDRLDLEERKK VETEAKIKQKLREIEENQKRIEK LEEYITTSKQSLEEQKKLEGELT EEVEMAKRRIDEINKELNQVMEQ LGDARIDRQESSRQQRKAEIMES IKRLYPGSVYGRLIDLCQPTQKK YQIAVTKVLGKNMDAIIVDSEKT GRDCIQYIKEQRGEPETFLPLDY LEVKPTDEKLRELKGAKLVIDVI RYEPPHIKKALQYACGNALVCDN VEDARRIAFGGHQRHKTVALDGT LFQKSGVISGGASDLKAKARRWD

				TGCCAGCCCACACAAAAGAAGTATCAGATTGCTGTAACCAAGGTTTTGGGCAAG AACATGGATGCCATTATTGTGGACTCGGAGAAGACAGGCCGGGACTGTATTCAG TATATCAAGGAGCAGCGTGGGGAGCCTGAGACCTTCTTGCCTCTTGACTACCTG GAGGTGAAGCCTACAGATGAGAAACTCCGGGAGCTGAAGGGGGCCAAGCTAGTG ATTGATGTGATTCGCTATGAGCCACCTCATATCAAAAAGGCCCTGCAGTATGCT TGTGGCAATGCCCTTGTCTGTGACAACGTGGAAGATGCCCGCCGCATTGCCTTT GGAGGCCACCAGCGCCACAAGACAGTGGCACTGGATGGAACCCTATTCCAGAAG TCAGGAGTGATCTCTGGTGGGGCCAGTGACCTGAAGGCCAAGGCACGGCGCTGG GATGAGAAAGCAGTAGACAAGTTGAAAGAGAAGAAGGAGCGCTTGACAGAGGAG CTGAAAGAGCAGATGAAGGCAAAACGGAAAGAGGCAGAGCTGCGTCAGGTGCAG TCTCAGGCCCATGGACTGCAGATGCGGCTCAAGTACTCCCAGAGTGACCTAGAA CAGACCAAGACACGACATCTAGCCCTGAATCTGCAGGAAAAATCCAAGCTGGAG AGTGAGCTAGCCAACTTTGGGCCTCGCATTAATGATATCAAGAGGATCATTCAG AGCCGAGAGAGGGAAATGAAAGACTTGAAGGAGAAGATGAACCAGGTAGAGGAT GAGGTGTTTGAAGAGTTTTGTCGGGAGATTGGTGTGCGCAACATCCGGGAGTTT GAGGAAGAAAAGGTGAAACGGCAGAATGAAATCGCCAAGAAGCGTTTGGAGTTT GAGAATCAGAAGACTCGCTTGGGCATTCAGTTGGATTTTGAAAAGAACCAACTG AAGGAGGACCAAGATAAAGTACACATGTGGGAGCAGACAGTGAAAAAAGATGAA AATGAGATAGAAAAGCTCAAAAAGGAGGAACAAAGACACATGAAGATCATAGAT GAGACCATGGCTCAGCTACAAGACCTGAAGAATCAGCATCTGGCCAAGAAGTCG GAAGTGAATGACAAGAATCATGAGATGGAGGAGATTCGTAAGAAACTCGGGGGC GCCAACAAGGAAATGACCCATTTACAGAAGGAGGTGACAGCCATTGAGACCAAG CTTGAACAGAAGCGCAGTGACCGTCACAACTTGCTACAGGCCTGTAAGATGCAG GACATTAAGTTGCCACTGTCAAAAGGCACCATGGATGATATTAGTCAGGAAGAG GGTAGCTCCCAGGGGGAGGACTCAGTGAGTGGTTCACAGAGAATTTCCAGTATC TATGCACGAGAGGCCCTCATTGAGATTGACTACGGTGATCTGTGTGAGGATCTG AAGGATGCCCAGGCTGAGGAAGAGATCAAGCAAGAGATGAACACACTGCAGCAG AAGCTGAATGAGCAGCAGAGTGTGCTTCAGCGTATTGCCGCCCCCAACATGAAG GCCATGGAAAAGCTGGAAAGTGTCCGAGACAAGTTCCAGGAGACCTCAGATGAG TTTGAAGCAGCCCGAAAGCGAGCAAAGAAGGCCAAGCAGGCATTCGAACAGATC AAGAAGGAGCGCTTTGACCGCTTCAATGCTTGTTTTGAATCTGTGGCTACCAAC ATTGATGAGATCTATAAGGCCCTGTCCCGCAATAGCAGTGCCCAGGCATTCCTG GGCCCTGAGAACCCTGAAGAGCCCTACTTGGATGGCATCAACTACAACTGTGTG GCTCCTGGGAAACGCTTCCGGCCTATGGACAACTTGTCAGGCGGGGAGAAGACA GTGGCAGCTCTGGCCCTGCTCTTTGCCATCCACAGCTACAAGCCAGCCCCCTTC TTCGTCCTGGATGAGATTGATGCTGCCTTGGATAACACCAACATTGGCAAGGTG GCAAATTACATCAAGGAGCAGTCGACTTGCAACTTCCAGGCCATCGTCATCTCT CTCAAGGAGGAGTTCTACACCAAGGCCGAGAGCCTCATTGGAGTCTATCCTGAG CAAGGGGACTGTGTGATCAGCAAAGTCCTGACCTTCGACCTCACCAAGTACCCA		EKAVDKLKEKKERLTEELKEQMK AKRKEAELRQVQSQAHGLQMRLK YSQSDLEQTKTRHLALNLQEKSK LESELANFGPRINDIKRIIQSRE REMKDLKEKMNQVEDEVFEEFCR EIGVRNIREFEEEKVKRQNEIAK KRLEFENQKTRLGIQLDFEKNQL KEDQDKVHMWEQTVKKDENEIEK LKKEEQRHMKIIDETMAQLQDLK NQHLAKKSEVNDKNHEMEEIRKK LGGANKEMTHLQKEVTAIETKLE QKRSDRHNLLQACKMQDIKLPLS KGTMDDISQEEGSSQGEDSVSGS QRISSIYAREALIEIDYGDLCED LKDAQAEEEIKQEMNTLQQKLNE QQSVLQRIAAPNMKAMEKLESVR DKFQETSDEFEAARKRAKKAKQA FEQIKKERFDRFNACFESVATNI DEIYKALSRNSSAQAFLGPENPE EPYLDGINYNCVAPGKRFRPMDN LSGGEKTVAALALLFAIHSYKPA PFFVLDEIDAALDNTNIGKVANY IKEQSTCNFQAIVISLKEEFYTK AESLIGVYPEQGDCVISKVLTFD LTKYPDANPNPNEQ*

				GATGCCAACCCCAACCCCAATGAGCAGTAG		
Human hGIT1_v4	11	prey12836	768	ATGGCTCCTAGGAAGGGCAGTAGTCGGGTGGCCAAGACCAACTCCTTACGGAGG CGGAAGCTCGCCTCCTTTCTGAAAGACTTCGACCGTGAAGTGGAAATACGAATC AAGCAAATTGAGTCAGACAGGCAGAACCTCCTCAAGGAGGTGGATAACCTCTAC AACATCGAGATCCTGCGGCTCCCCAAGGCTCTGCGCGAGATGAACTGGCTTGAC TACTTCGCCCTTGGAGGAAACAAACAGGCCCTGGAAGAGGCGGCAACAGCTGAC CTGGATATCACCGAAATAAACAAACTAACAGCAGAAGCTATTCAGACACCCCTG AAATCTGCCAAAACACGAAAGGTAATACAGGTAGATGAAATGATAGTGGAAGAG GAAGAAGAAGAAGAAAATGAACGTAAGAATCTTCAAACTGCAAGAGTCAAAAGG TGTCCTCCATCCAAGAAGAGAACTCAGTCCATACAAGGAAAAGGAAAAGGGAAA AGGTCAAGCCGTGCTAACACTGTTACCCCAGCCGTGGGCCGATTGGAGGTGTCC ATGGTCAAACCAACTCCAGGCCTGACACCCAGGTTTGACTCAAGGGTCTTCAAG ACCCCTGGCCTGCGTACTCCAGCAGCAGGAGAGCGGATTTACAACATCTCAGGG AATGGCAGCCCTCTTGCTGACAGCAAAGAGATCTTCCTCACTGTGCCAGTGGGC GGCGGAGAGAGCCTGCGATTATTGGCCAGTGACTTGCAGAGGCACAGTATTGCC CAGCTGGATCCAGAGGCCTTGGGAAACATTAAGAAGCTCTCCAACCGTCTCGCC CAAATCTGCAGCAGCATACGGACCCACAAATGA	1506	MAPRKGSSRVAKTNSLRRRKLAS FLKDFDREVEIRIKQIESDRQNL LKEVDNLYNIEILRLPKALREMN WLDYFALGGNKQALEEAATADLD ITEINKLTAEAIQTPLKSAKTRK VIQVDEMIVEEEEEENERKNLQ TARVKRCPPSKKRTQSIQGKGKG KRSSRANTVTPAVGRLEVSMVKP TPGLTPRFDSRVFKTPGLRTPAA GERIYNISGNGSPLADSKEIFLT VPVGGGESLRLLASDLQRHSIAQ LDPEALGNIKKLSNRLAQICSSI RTHK*
Human hGIT1_v4	11	prey24275	769	TTTCGTTTTAACAAAGAGAGAGCAGAAGGAGGCCAGGGAGAACAGCAGCCTTTG AGTGGAAGTTGGACCAGCCCTCAGCTCCCTTCGAGGACACAGTCTGTTAGGTCA CCCACACCTTATAAAAAGCAGCTTAATGAGGAACTCCAGCGGCGCTCTTCAGCA TTAGACACAAGAAGGAAAGCAGAACCTACCTTTGGAGGTCATGACCCTCGTACA GCTGTTCAGCTTCGAAGCCCTCAGCCAGTNTTAANACGCCCTCAGGGAAATNNG GGGGGGGNAANNCCGGGGNTTNGTGACCTTGNAAACCATACCTGGCATGCCNAN ATNGNCCNTTGTNAANGAANTNNCTTNTNNACTGGGGANGNGNNGAAAATTTTA ACNA	1507	FRFNKERAEGGQGEQQPLSGSWT SPQLPSRTQSVRSPTPYKKQLNE ELQRRSSALDTRRKAEPTFGGHD PRTAVQLRSPQPVLXRPQGNXGG XXPGXXDLXNHTWHAXXXXCXXX XXXTGXXXKILT
Human hGIT1_v4	11	prey2561	770	ATGAACACCAACTGGCCAGCCTCGGTGCAGGTCAGCGTCAATGCCACGCCGCTC ACCATCGAGCGTGGCGACAACAAGACCTCGCACAAGCCACTCTACCTGAAGCAT GTGTGCCAGCCAGGCCGCAACACCATCCAGATCACCGTCACCGCCTGCTGCTGC TCCCACCTCTTCGTGCTGCAGCTAGTGCACCGCCCATCCGTCCGCTCGGTGCTG CAGGGCCTCCTCAAAAAGCGCCTCCTGCCTGCTGAGCACTGCATCACCAAGATA AAGCGGAACTTCAGCAGCGGCACCATCCCTGGCACCCCTGGGCCCAACGGAGAG GACGGGGTGGAGCAGACAGCTATCAAGGTGTCCCTGAAGTGCCCCATCACCTTC CGCAGGATCCAGCTCCCTGCCCGAGGTCATGACTGTCGCCACATACAGTGCTTT GACCTGGAGTCGTACCTGCAGCTCAACTGTGAGCGGGGGACTTGGAGGTGTCCT GTGTGCAACAAGACAGCTTTGCTGGAGGGCCTGGAGGTGGACCAGTACATGCTG GGCATCCTGATTTACATTCAGAACTCTGACTATGAGGAGATCACCATCGACCCC ACGTGCAGCTGGAAGCCAGTGCCCGTGAAGCCTGACATGCACATCAAGGAGGAG CCGGATGGGCCAGCACTGAAGCGCTGCCGCACCGTGAGCCCCGCCCACGTGCTC ATGCCCAGCGTGATGGAGATGATCGCCGCCCTGGGCCCCGGCGCTGCCCCCTTT	1508	MNTNWPASVQVSVNATPLTIERG DNKTSHKPLYLKHVCQPGRNTIQ ITVTACCCSHLFVLQLVHRPSVR SVLQGLLKKRLLPAEHCITKIKR NFSSGTIPGTPGPNGEDGVEQTA IKVSLKCPITFRRIQLPARGHDC RHIQCFDLESYLQLNCERGTWRC PVCNKTALLEGLEVDQYMLGILI YIQNSDYEEITIDPTCSWKPVPV KPDMHIKEEPDGPALKRCRTVSP AHVLMPSVMEMIAALGPGAAPFA PLQPPSVPAPSDYPGQGSSFLGP GTFPESFPPTMPSTPTLAEFTPG PPPISYQSDIPSSLLTSEKSTAC

				GCCCCCCTGCAGCCCCCCTCAGTCCCTGCCCCCAGCGACTACCCTGGCCAGGGT TCCAGCTTCCTGGGGCCTGGAACTTTCCCTGAGTCCTTCCCACCCACCATGCCC AGCACCCCAACCCTTGCTGAGTTCACCCCGGGACCACCCCCCATCTCCTACCAG TCTGACATTCCCAGCAGCCTCCTGACTTCAGAGAAGTCTACCGCCTGCCTCCCA AGCCAGATGGCACCAGCAGGTCACCTGGACCCCACTCACAATCCTGGGACACCA GGACTACACACCTCCAACCTTGGGGCCCCTCCAGGTCCCCAGCTGCACCATTCA AACCCTCCCCCAGCGTCCCGGCAGTCCTTGGGCCAAGCGAGCTTAGGACCTACG GGTGAACTGGCCTTCAGTCCTGCCACAGGCGTGATGGGGCCCCCCAGCATGTCT GGAGCCGGGGAGGCCCCAGAACCAGCTCTGGACCTGCTCCCGGAACTGACCAAC CCTGATGAGCTACTGTCCTACTTGGGCCCACCCGACCTCCCTACGAACAACAAT GACGACCTGCTTTCTCTGTTTGAGAACAACTGA		LPSQMAPAGHLDPTHNPGTPGLH TSNLGAPPGPQLHHSNPPPASRQ SLGQASLGPTGELAFSPATGVMG PPSMSGAGEAPEPALDLLPELTN PDELLSYLGPPDLPTNNNDDLLS LFENN*
Human hGIT1_v4	11	prey1370	771	GGAGTATGCATATACAGCCACGCTGCAAGCCAAGGCGGAGGACCTGGATGACCT GCTGTATGCGGCCGAGATCCTGGAGATCGAGTACCTGGAGGAACAGTGCCTGAA GATGCTGGAGACCATCCAGGCCTCAGACGACAATGACACGGAGGCCACCATGGC CGATGGCGGGGCCGAGGAAGAAGAGGACCGCAAGGCTCGGTACCTCAAGAACAT CTTCATCTCGAAGCATTCCAGCGAGGAGAGTGGGTATGCCAGTGTGGCTGGACA GAGCCTCCCTGGGCCCATGGTGGACCAGAGCCCTTCAGTCTCCACTTCATTTGG TCTTTCAGCCATGAGTCCCACCAAGGCTGCAGTGGACAGTTTGATGACCATAGG ACAGTCTCTCCTGCAGGGAACTCTTCAGCCACCTGCAGGGCCCGAGGAGCCAAC TCTGGCTGGGGGTGGGCGGCACCCTGGGGTGGCTGAGGTGAAGACGGAGATGAT GCAGGTGGATGAGGTGCCCAGCCAGGACAGCCCTGGGGCAG	1509	EYAYTATLQAKAEDLDDLLYAAE ILEIEYLEEQCLKMLETIQASDD NDTEATMADGGAEEEEDRKARYL KNIFISKHSSEESGYASVAGQSL PGPMVDQSPSVSTSFGLSAMSPT KAAVDSLMTIGQSLLQGTLQPPA GPEEPTLAGGGRHPGVAEVKTEM MQVDEVPSQDSPGA

CLAIMS

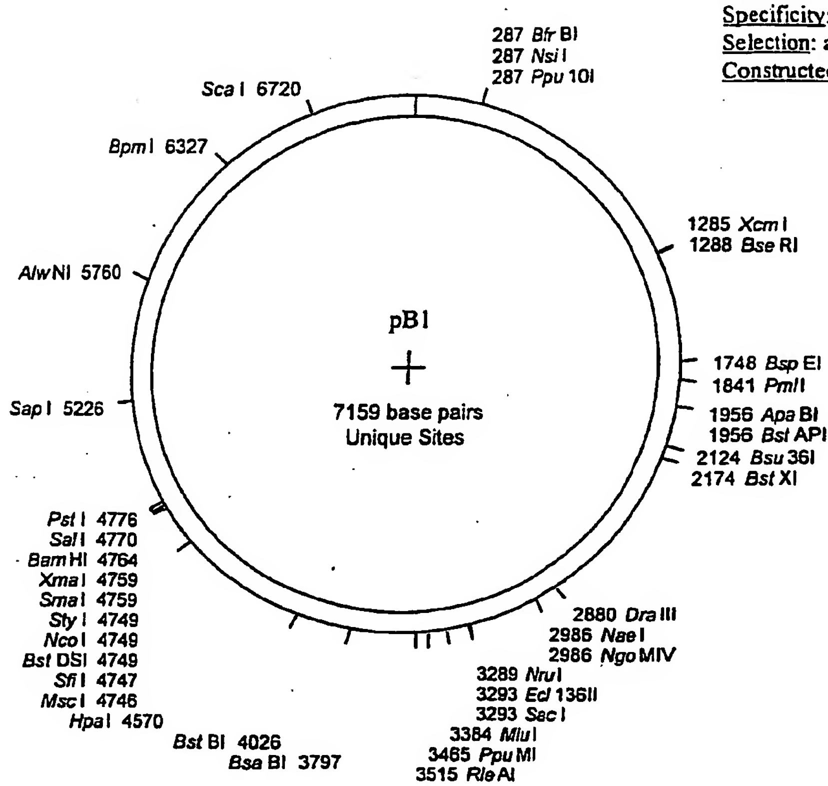
What is claimed is:

1. A complex between two interacting proteins in adipocyte cells as defined in columns 1 and 4 in Table 2.
2. A polynucleotide encoding a polypeptide in adipocyte cells as defined in columns 1 and 4 in Table 2.
3. A recombinant host cell expressing at least one of the interacting polypeptides of said complex of claim 1.
4. A method for selecting a modulating compound in adipocyte cells comprising:
   (a) cultivating a recombinant host cell on a selective medium containing a modulating compound and a reporter gene the expression of which is toxic for said recombinant host cell wherein said recombinant host cell is transformed with two vectors:
      (i) wherein said first vector comprises a polynucleotide encoding a first hybrid polypeptide and a DNA bonding domain;
      (ii) wherein said second vector comprises a polynucleotide encoding a second hybrid polypeptide and an activating domain that activates said toxic reporter gene when the first and second hybrid polypeptides interact;
   (b) selecting said modulating compound which inhibits the growth of said recombinant host cell.
5. A modulating compound obtained from the method of Claim 4.
6. A SID® polypeptide comprising the SEQ ID Nos. 772 to 1509.
7. A SID® polynucleotide comprising the SEQ ID Nos. 34 to 771.
8. A vector comprising the SID® polynucleotide comprising the SEQ ID Nos. 34 to 771.
9. A fragment of said SID® polypeptide according to Claim 6.
10. A variant of said SID® polypeptide according to Claim 6.
11. A fragment of said SID® polynucleotide according to Claim 7.
12. A variant of said SID® polynucleotide according to Claim 7.
13. A vector comprising the SID® polynucleotide according to Claim 11.
14. A vector comprising the SID® polynucleotide according to Claim 12.

15. A recombinant host cell containing the vectors according to Claim 8.
16. A recombinant host cell containing the vectors according to Claim 13.
17. A pharmaceutical composition comprising a modulating compound of claim 5 and a pharmaceutically acceptable carrier.
18. A pharmaceutical composition comprising a SID® polypeptide of SEQ ID Nos. 772 to 1509 and a pharmaceutically acceptable carrier.
19. A pharmaceutical composition comprising the recombinant host cells of Claim 15 and a pharmaceutically acceptable carrier.
20. A pharmaceutical composition comprising the recombinant host cells of Claim 16 and a pharmaceutically acceptable carrier.
21. A protein chip comprising the polypeptides of **Table 2**.
22. A record comprising all or part of the data set forth in **Tables 1 and 2**.

pB1

Alias: pAS2DD
Application: 2HY (bait)
Backbone:
Specificity:
Selection: ampicillin
Constructed by:



Oligo 160

[gagagtagtaacaaaggtc] AAAGACAGTTGACTGTATCGCCG GAA TTT AT

Sfi I / Sma I / BamH I / Sal I / Pst I

G GCC ATG GAG GCC CCG GGG ATC CGT CGA CCT GCA GCC

Nco I

Oligo 161

AAG CTA ATT [ccgggcgaatttcttatg]

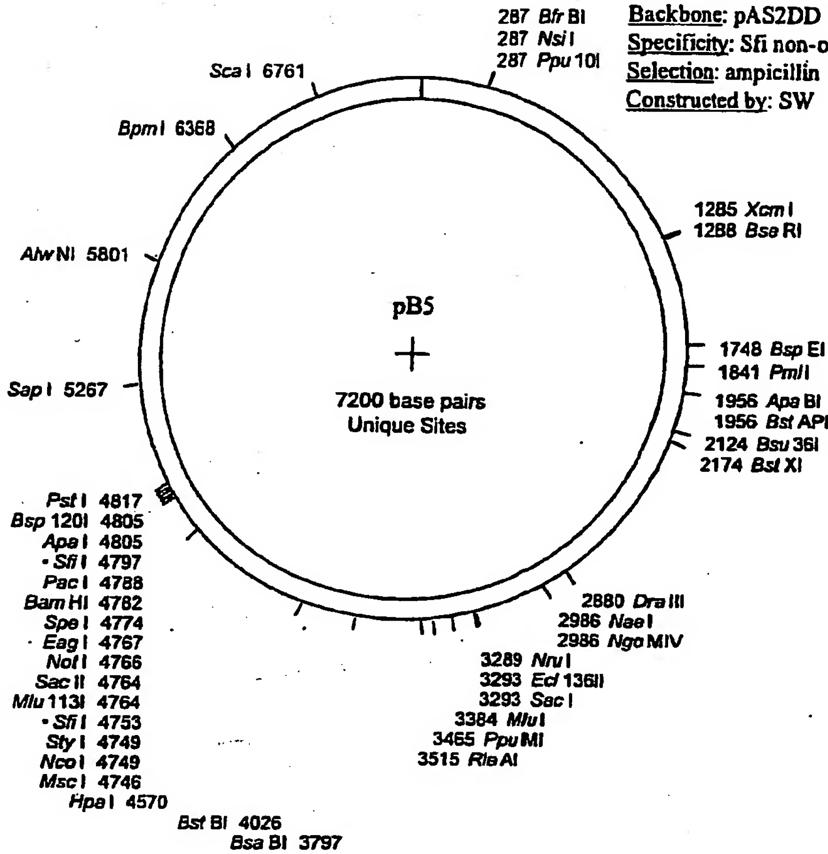
Oligo 160 5' **GAGAGTAGTAACAAAGGTC** 3'
Oligo 161 5' **CATAAGAAATTCGCCCGG** 3'

FIGURE 1

2/16

pB5

Alias: pAS2DDNS1
Application: 2HY (bait)
Backbone: pAS2DD
Specificity: Sfi non-oriented
Selection: ampicillin
Constructed by: SW



Oligo 160

gagagtagtaacaaaggtc AAAGACAGTTGACTGTATCGCCG GAA TTT ATG

Sfi I — Sac II — Spe I — Bam HI

GCC ATG GCC GCA GGG GCC GCG GCC GCA CTA GTG GGG ATC C

Nco I — Not I

STOP — Sfi I — Pst I

TT AAT TAA GGG CCA CTG GGG CCC CTC GAC CTG CAG CCA

Pac I

Oligo 161

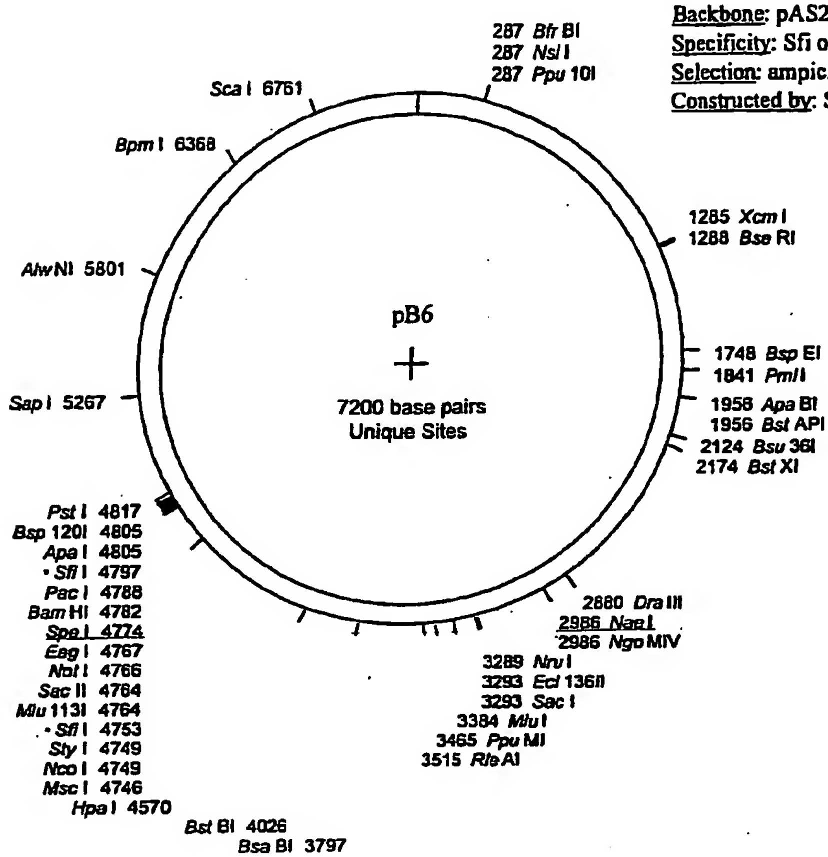
AGC TAA TT ccgggcgaatttcttatg

Oligo 160 5' GAGAGTAGTAACAAAGGTC 3'
Oligo 161 5' CATAAGAAATTCGCCCGG 3'

FIGURE 2

pB6

Application: 2HY (bait)
Backbone: pAS2DD
Specificity: Sfi oriented
Selection: ampicillin
Constructed by: SW



Oligo 160

gagagtagtaacaaaggtc AAAGACAGTTGACTGTATCGCCG GAA TTT ATG

Sfi I, Sac II, Spe I, Bam HI

GCC ATG GCC GGA CGG GCC GCG GCC GCA CTA GTG GGG ATC C

Nco I, Not I

STOP, Sfi I, Apa I, Pst I

TT AAT TAA GGG CCA CTG GGG CCC CTC GAC CTG CAG CCA

Pac I

Oligo 161

AGC TAA TT ccgggcgaatttcttatg

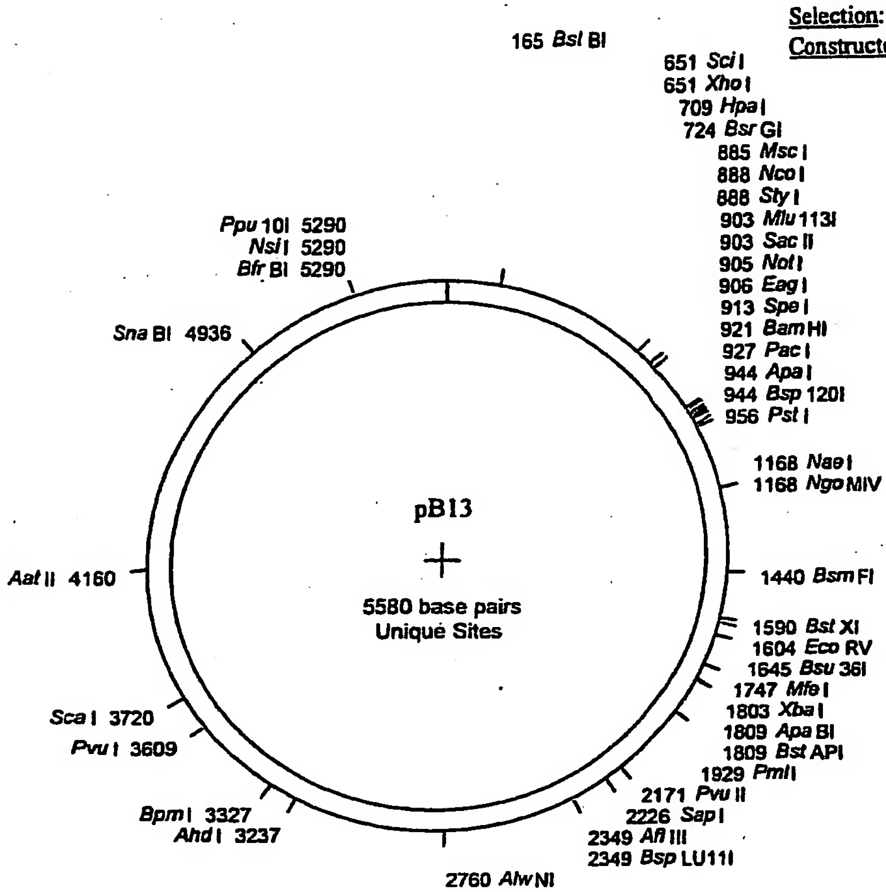
Oligo 160 5' GAGAGTAGTAACAAAGGTC 3'

Oligo 161 5' CATAAGAAATTCGCCCGG 3'

FIGURE 3

pB13

<u>Alias</u>: pGBT9NS1
<u>Application</u>: 2HY (bait)
<u>Backbone</u>: pGBT9
<u>Specificity</u>: Sfi non-oriented
<u>Selection</u>: ampicillin
<u>Constructed by</u>: CR



Oligo 160

gagagtagtaacaaaggtc AAAGACAGTTGACTGTATCGCCG GAA TTT ATG

Sfi I / Sac II / Spe I / Bam HI

GCC ATG GCC GCA GGG GCC GCG GCC GCA CTA GTG GGG ATC C

Nco I / Not I

STOP / Sfi I / Pst I

TT AAT TAA GGG CCA CTG GGG CCC CTC GAC CTG CAG CCA

Pac I

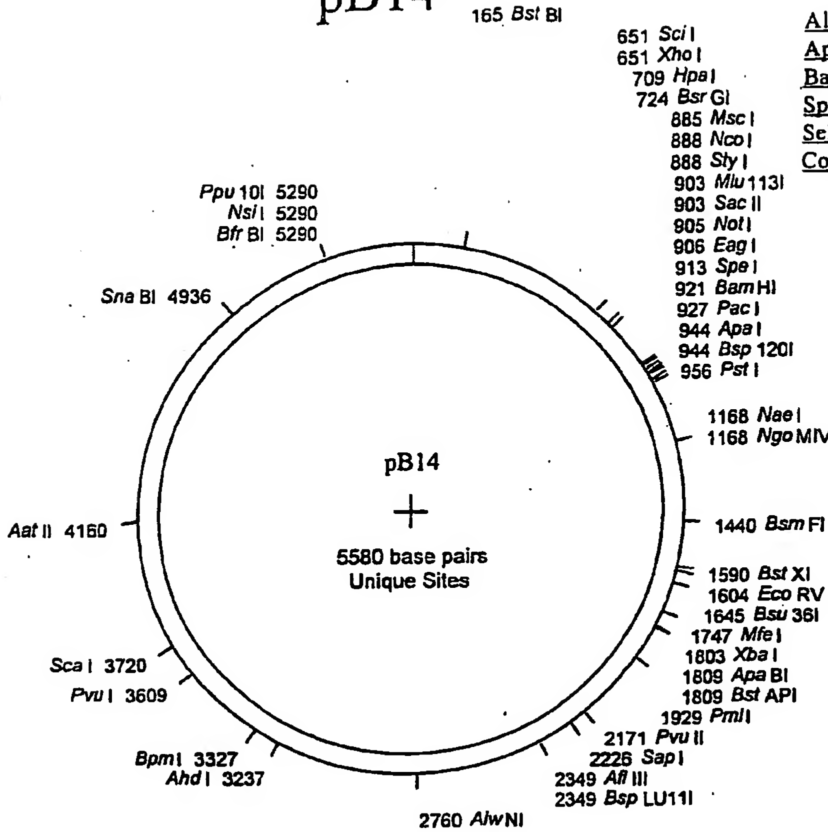
Oligo 161

AGC TAA TT ccgggcgaatttcttatg

Oligo 160 5' GAGAGTAGTAACAAAGGTC 3'
Oligo 161 5' CATAAGAAATTCGCCCGG 3'

FIGURE 4

pB14



Alias: pGBT9NS2
Application: 2HY (bait)
Backbone: pGBT9
Specificity: Sfi oriented
Selection: ampicillin
Constructed by: CR

Oligo 160

gagagtagtaacaaaggtc AAAGACAGTTGACTGTATCGCCG GAA TTT ATG

Sfi I — Sac II — Spe I — Bam HI

GCC ATG GCC GGA CGG GCC GCG GCC GCA CTA GTG GGG ATC C

Nco I — Not I

STOP — Sfi I — Apa I — Pst I

TT AAT TAA GGG CCA CTG GGG CCC CTC GAC CTG CAG CCA

Pac I

Oligo 161

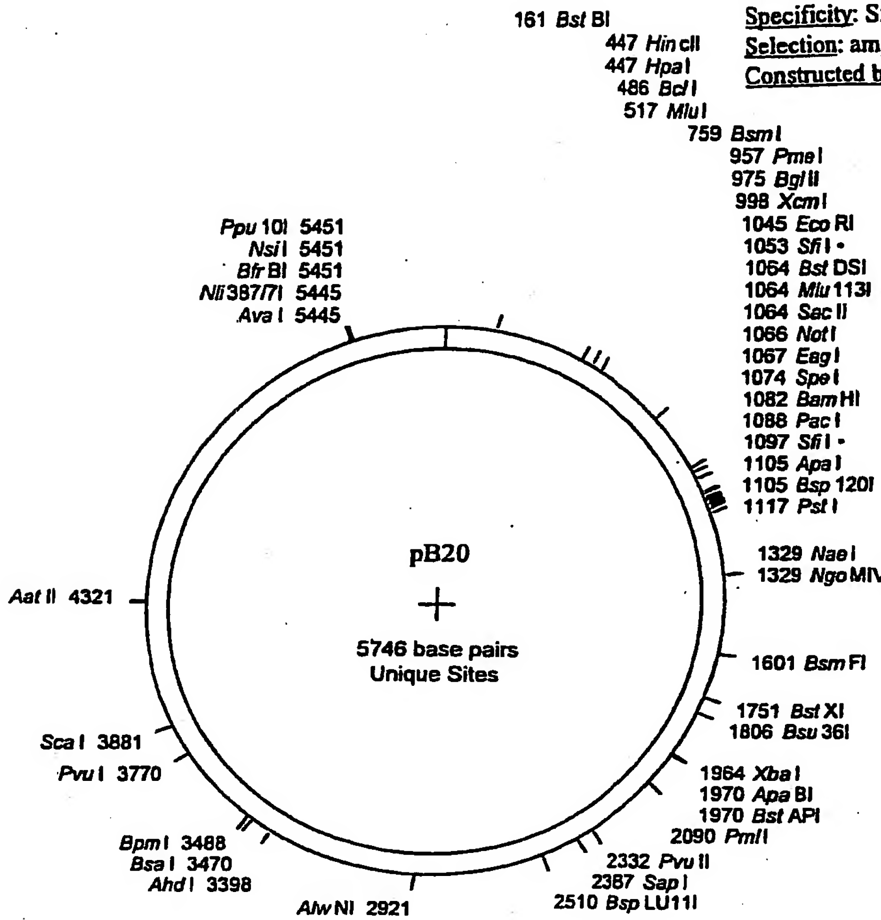
AGC TAA TT ccgggcgaatttcttatg

Oligo 160 5' GAGAGTAGTAACAAAGGTC 3'
Oligo 161 5' CATAAGAAATTCGCCCGG 3'

FIGURE 5

pB20

Alias: pLex10NS2
Application: 2HY (bait)
Backbone: pLex10 (pB9)
Specificity: Sfi-oriented
Selection: ampicillin
Constructed by: LD



EcoR I — Sfi I — Not I — Spe I

GAA TTC GGG GCC GGA CGG GCC GCG GCC GCA CTA GTG

Sac II

BamH I — STOP

GGG ATC C TT AAT $\boxed{\text{TAA}}$ GGG CCA CTG GGG CCC CTC GAC

Pac I — Sfi I

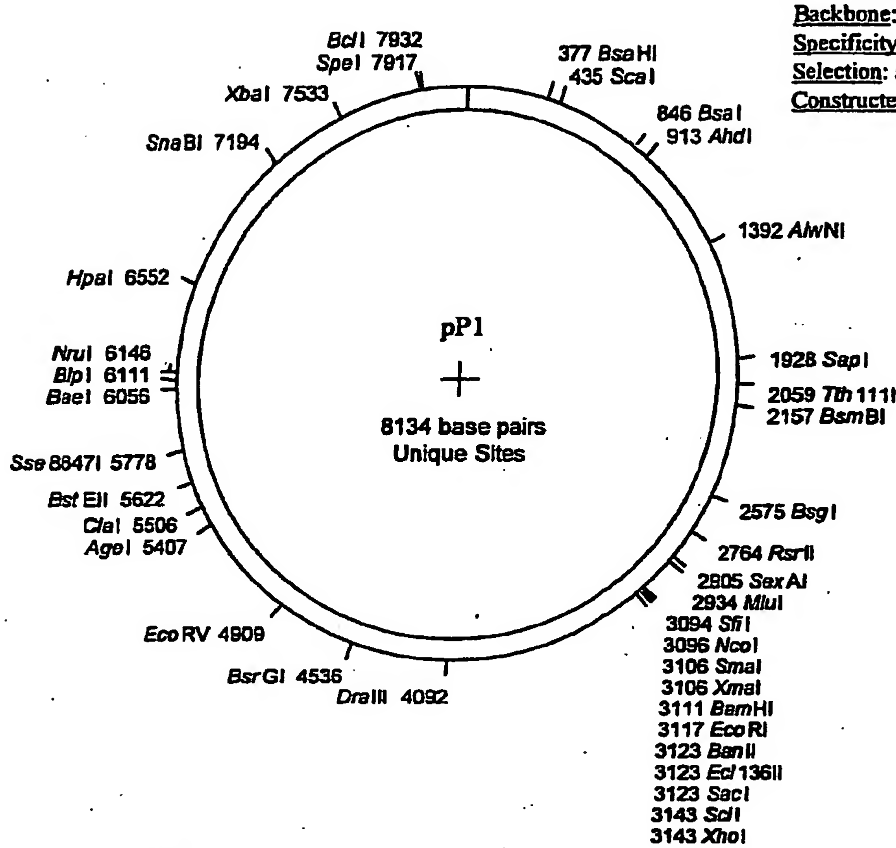
CTG CAG

Pst I

FIGURE 6

pP1

Alias : pACTIIst
Application: 2HY (prey)
Backbone: pACTII
Specificity:
Selection: ampicillin
Constructed by:



ABS1

cgtttggaatcactacagg GATGTTTAATACCACTACAATGGATGATGTATATAACTATCTATT

JC90 | Bgl II

cgatgatgaagataccccaccaaa CCCAAAAAAAGAGATCTGTATGGCTTACCCATACGATGTTCCAG

Sfi I | Sma I | BamH I

ATTACGCTAGCTTGGGTGGTCATATGGCC ATG GAG GCC CCG GGG ATC CGA ATT

Sac I | Nco I | Xho I | Bgl II

CGA GCT CGA CTA GCT AGC TGA CTC GAG AGA TCT ATGAAT

cgtagatactgaaaaacccc GCAAGTT cacttcaactgtgcatcgtg caccatctcaatttc

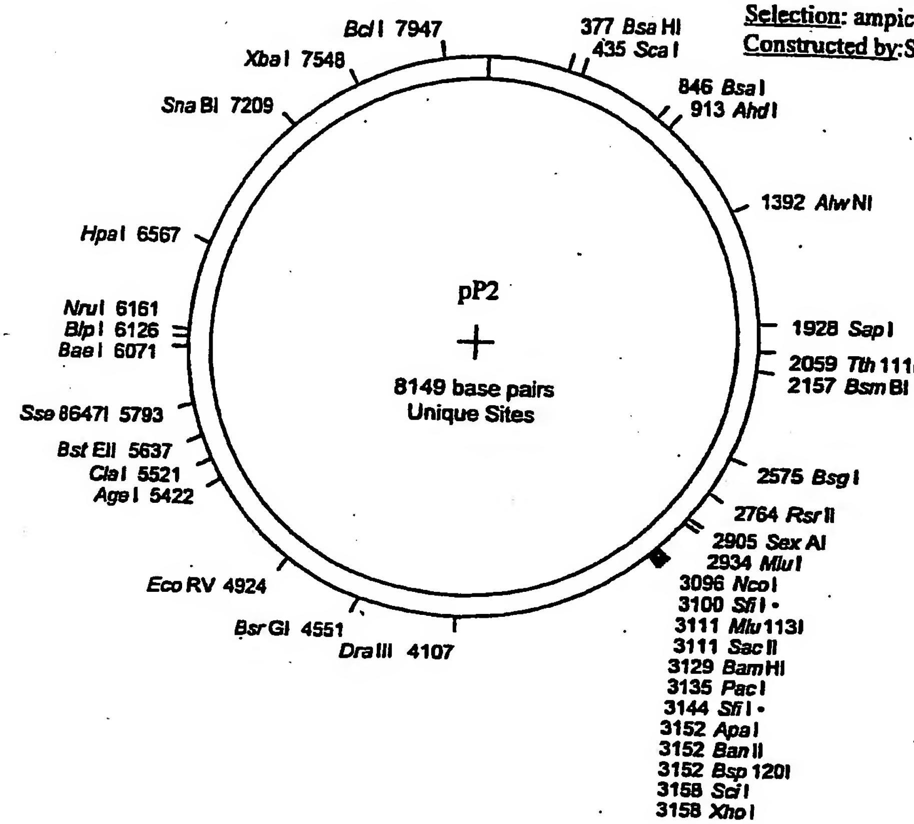
162 | ABS2 | 53

ABS1 5' CGTTTGGAATCACTACAGG 3'
JC90 5' CGATGATGAAGATACCCCACCAAA 3'
162 5' GGGGTTTTTCAGTATCTACG 3'
ABS2 5' CACGATGCACAGTTGAAGTG 3'
53 5' GAAATTGAGATGGTGCACGATGCAC 3'

FIGURE 7

pP2

Application: 2HY (prey)
Backbone: pACTIIst
Specificity:Sfi non-oriented
Selection: ampicillin
Constructed by:SW



ABS1
CG cgtttggaatcactacagg GATGTTTAATACCACTACAATGGATGATGTATATAACTATCTATT

JC90 Bgl II
cgatgatgaagataccccaccaaa CCCAAAAAAAGAGATCTGTATGGCTTACCCATACGATGTTCCAG

Sfi I Sac II
ATTACGCTAGCTTGGGTGGTCATATGGCC ATG GCC GCA GGG GCC GCG GCC GCA
Nco I

BamH I Pac I
CTA GTG GGG ATC CTT AAT TAA GGG CCA CTG GGG CCC CTC GAG AGA TCT
Stop

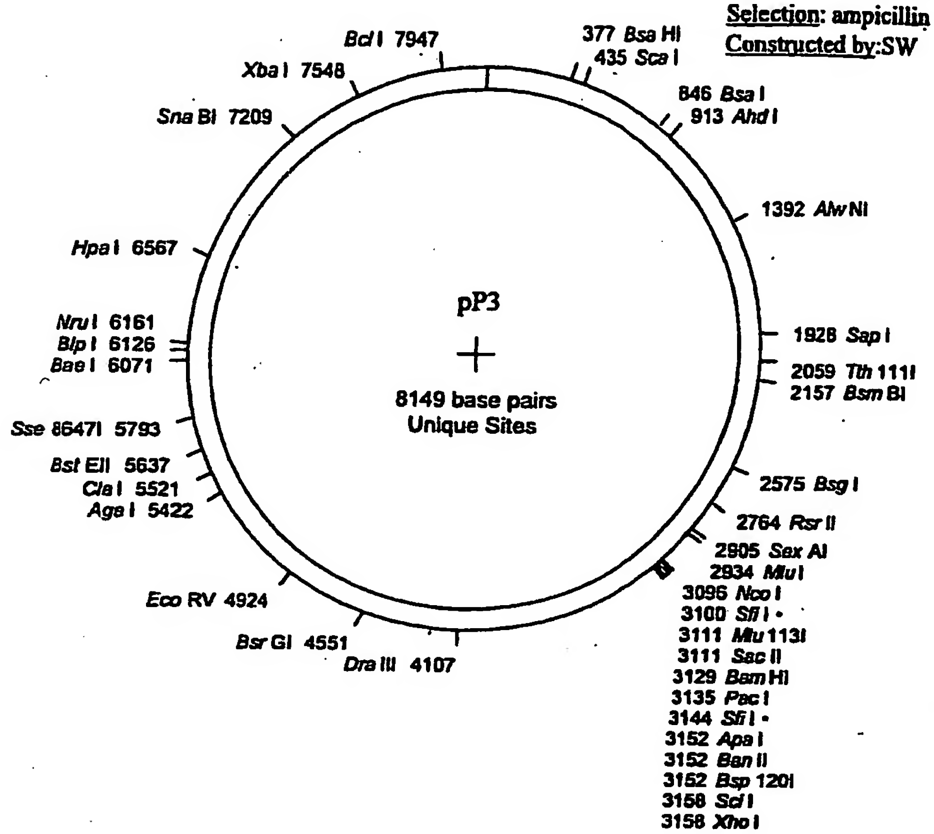
ATGAAT cgtagatactgaaaaacccc GCAAGTT cacttcaactgtgcatcgtg caccatctcaatttc
162 ABS2 53

ABS1 5' CGTTTGGAATCACTACAGG 3'
JC90 5' CGATGATGAAGATACCCCACCAAA 3'
162 5' GGGGTTTTTCAGTATCTACG 3'
ABS2 5' CACGATGCACAGTTGAAGTG 3'
53 5' GAAATTGAGATGGTGCACGATGCAC 3'

FIGURE 8

pP3

Application: 2HY (prey)
Backbone: pACTIIst
Specificity:Sfi oriented
Selection: ampicillin
Constructed by:SW



ABS1

CG cgtttggaatcactacagg GATGTTTAATACCACTACAATGGATGATGTATATAACTATCTATT

JC90 / Bgl II

cgatgatgaagataccccaccaaa CCCAAAAAAAGAGATCTGTATGGCTTACCCATACGATGTTCCAG

Sfi I / Sac II

ATTACGCTAGCTTGGGTGGTCATATGGCC ATG GCC GGA CGG GCC GCG GCC GCA

Nco I

BamH I / Pac I

CTA GTG GGG ATC CTT AAT TAA GGG CCA CTG GGG CCC CTC GAG AGA TCT

Stop

ATGAAT cgtagatactgaaaaacccc GCAAGTT cacttcaactgtgcatcgtg caccatctcaatttc

162 ABS2 53

ABS1 5' CGTTTGGAATCACTACAGG 3'

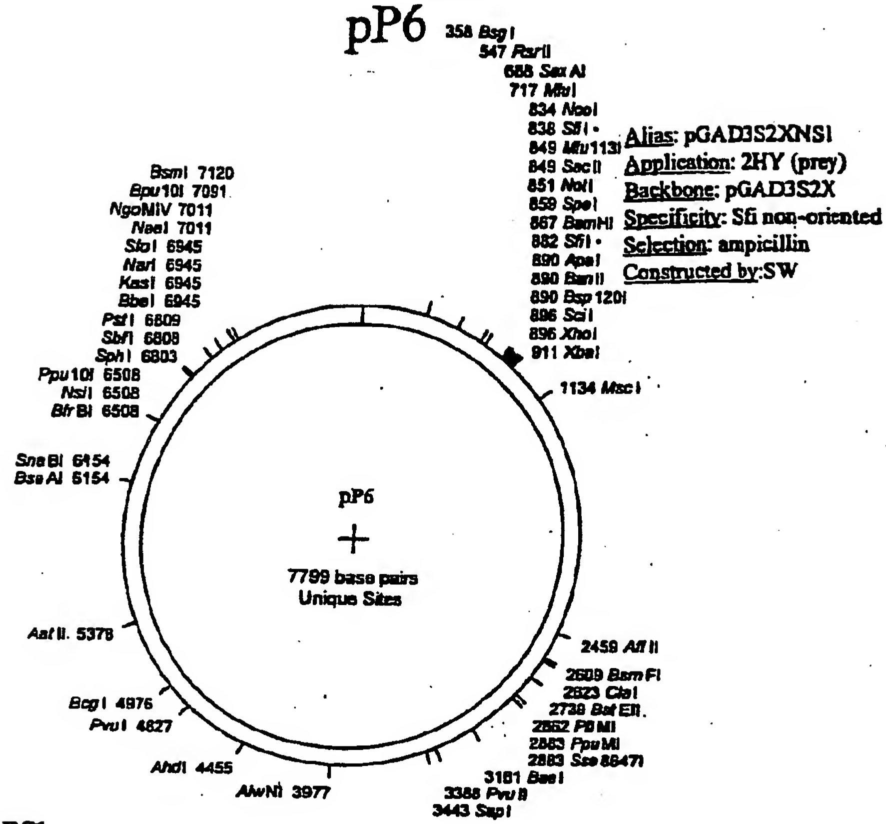
JC90 5' CGATGATGAAGATACCCCACCAAA 3'

162 5' GGGGTTTTTCAGTATCTACG 3'

ABS2 5' CACGATGCACAGTTGAAGTG 3'

53 5' GAAATTGAGATGGTGCACGATGCAC 3'

FIGURE 9



ABS1

[cgtttggaatcactacagg] GATGTTTAATACCACTACAATGGATGATGTATATAACTATCTATT

JC90

[cgatgatgaagataccccaccaaa] CCCAAAAAAAGAGATCCTAGAACTA

Sfi I, Sac II, Spe I, Bam HI

GCC ATG GCC GCA GGG GCC GCG GCC GCA CTA GTG GGG ATC C

Nco I, Not I

STOP, Sfi I, Xho I, Xba I

TT AAT [TAA] GGG CCA CTG GGG CCC CTC GAG [TAG] C[TA G]TG T[CT AG]A

STOP STOP STOP

GGCCCGGTACCCAATTCGCCCTATAGTGAGTCGTATTACAATTCACTGGCCG TCGTTTTA

CAACGTCGTGACTGGGAAAACCCTGATCTATGAAT [cgtagatactgaaaaacccc] GCAA

162

GTT [cacttcaac[tgtgcatcgtg] caccatctcaatttctttc]

ABS2 53

ABS1 5' CGTTTGGAATCACTACAGG 3'

JC90 5' CGATGATGAAGATACCCCACCAAA 3'

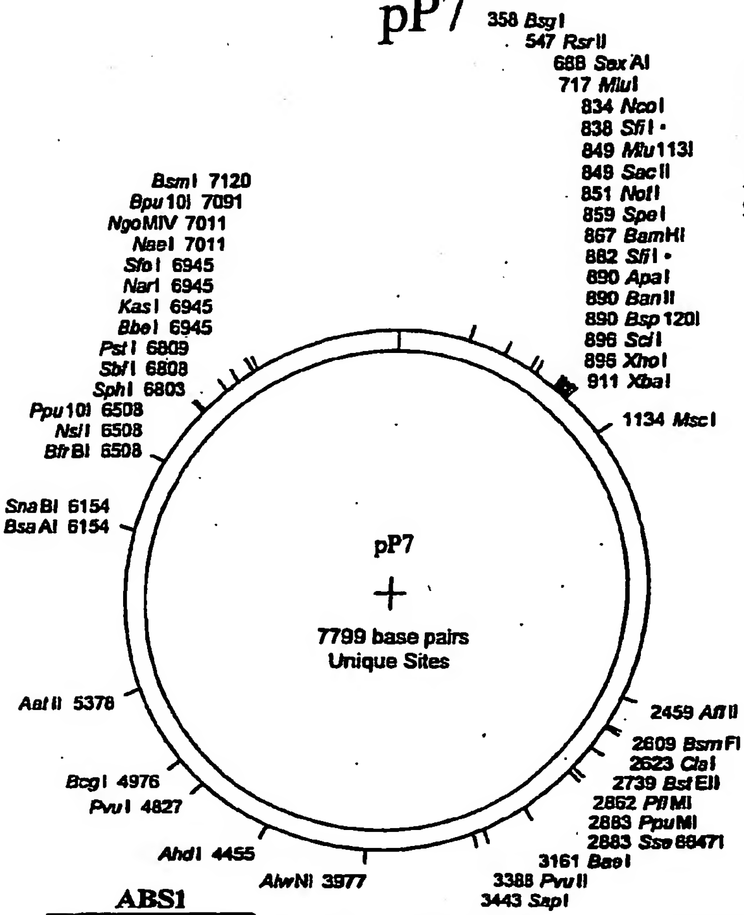
162 5' GGGGTTTTTCAGTATCTACG 3'

ABS2 5' CACGATGCACAGTTGAAGTG 3'

53 5' GAAATTGAGATGGTGCACGATGCAC 3'

FIGURE 10

pP7



Alias: pGAD3S2XNS2
Application: 2HY (prey)
Backbone: pGAD3S2X
Specificity: Sfi oriented
Selection: ampicillin
Constructed by:SW

ABS1

cgtttggaatcactacagg GATGTTTAATACCACTACAATGGATGATGTATATAACTATCTATT

JC90

cgatgatgaagataccccaccaaa CCCAAAAAAAGAGATCCTAGAACTA

Sfi I — Sac II — Spe I — Bam HI

GCC ATG GCC GGA CGG GCC GCG GCC GCA CTA GTG GGG ATC C

Nco I — Not I

STOP — Sfi I — Xho I — Xba I

TT AAT TAA GGG CCA CTG GGG CCC CTC GAG TAG CTA GTG TCT AGA

STOP STOP STOP

GGCCCGGTACCCAATTCGCCCTATAGTGAGTCGTATTACAATTCACTGGCCGTCGTTTTA

CAACGTCGTGACTGGGAAAACCCTGATCTATGAAT cgtagatactgaaaaacccc GCAA

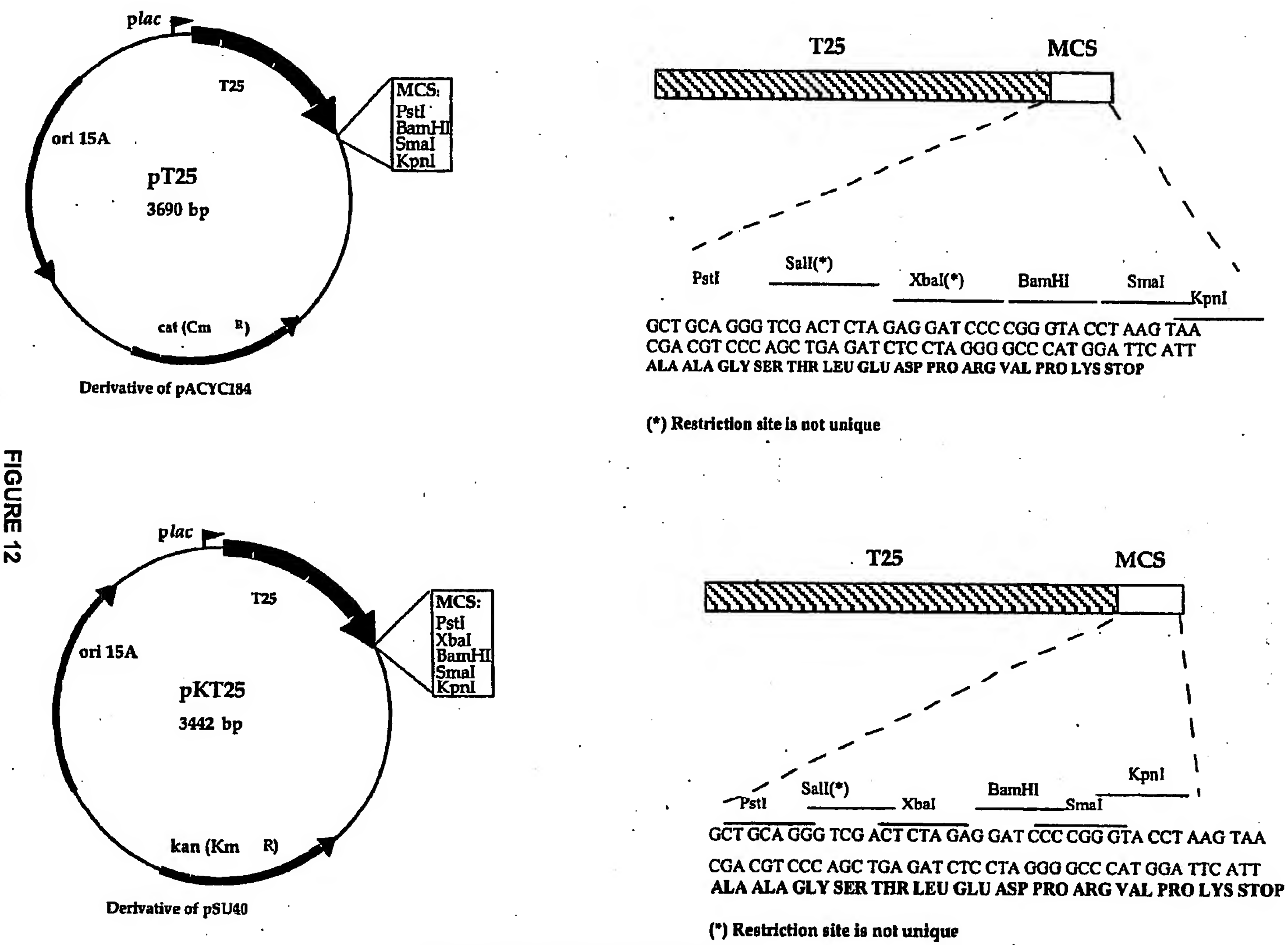
162

GTT cacttcaactgtgcatcgtg caccatctcaatttcttt

ABS2 53

ABS1 5' CGTTTGGAATCACTACAGG 3'
JC90 5' CGATGATGAAGATACCCCACCAAA 3'
162 5' GGGGTTTTTCAGTATCTACG 3'
ABS2 5' CACGATGCACAGTTGAAGTG 3'
53 5' GAAATTGAGATGGTGCACGATGCAC 3'

FIGURE 11



VECTORS EXPRESSING THE T25 FRAGMENT

FIGURE 12

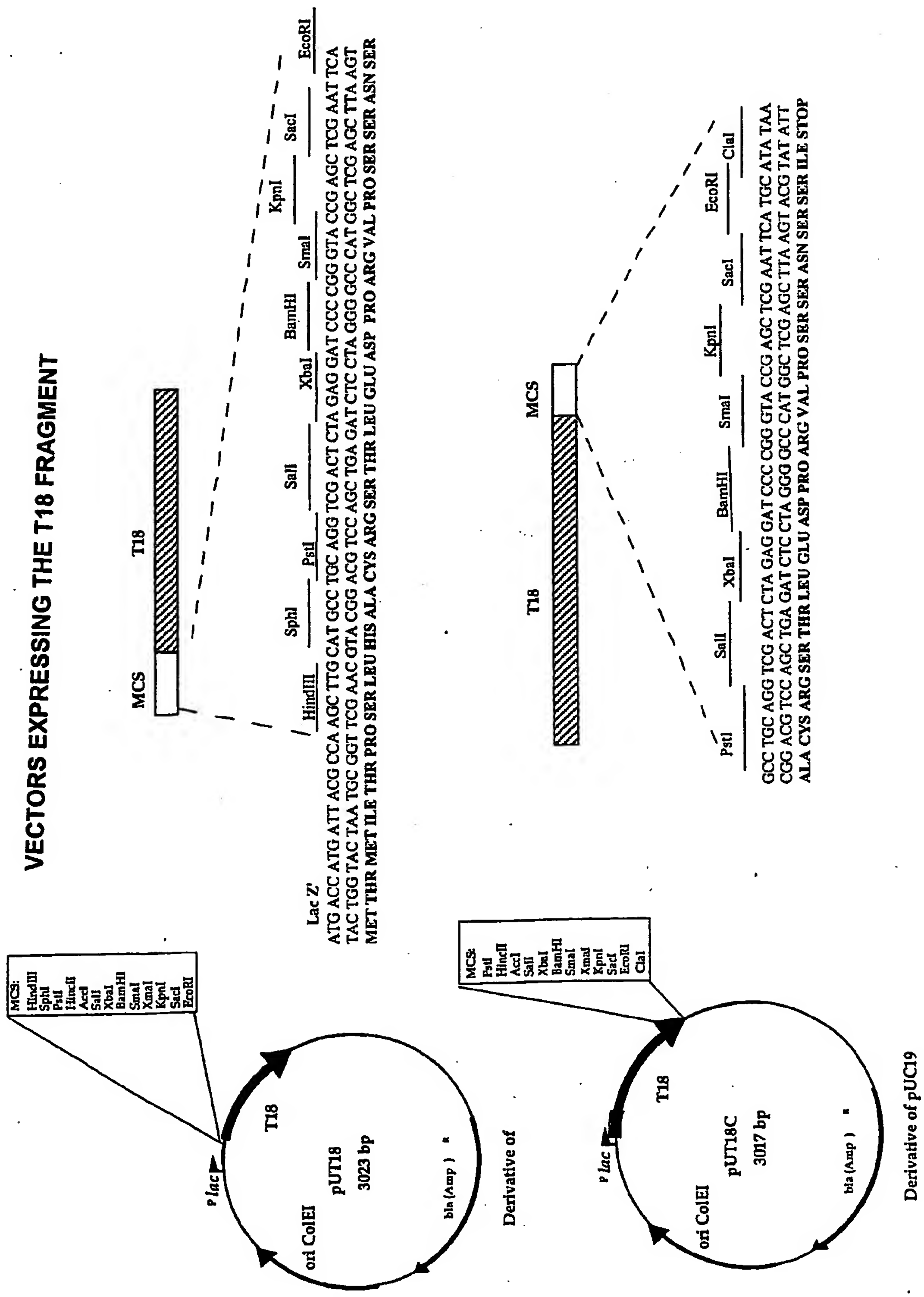

VECTORS EXPRESSING THE T18 FRAGMENT
MCS
T18
HindIII
SphI
PstI
SalI
XbaI
BamHI
SmaI
KpnI
SacI
EcoRI
Lac Z'
ATG ACC ATG ATT ACG CCA AGC TTG CAT GCC TGC AGG TCG ACT CTA GAG GAT CCC CGG GTA CCG AGC TCG AAT TCA
TAC TGG TAC TAA TGC GGT TCG AAC GTA CGG ACG TCC AGC TGA GAT CTC CTA GGG GCC CAT GGC TCG AGC TTA AGT
MET THR MET ILE THR PRO SER LEU HIS ALA CYS ARG SER THR LEU GLU ASP PRO ARG VAL PRO SER SER ASN SER
T18
MCS
PstI
SalI
XbaI
BamHI
SmaI
KpnI
SacI
EcoRI
ClaI
GCC TGC AGG TCG ACT CTA GAG GAT CCC CGG GTA CCG AGC TCG AAT TCA TGC ATA TAA
CGG ACG TCC AGC TGA GAT CTC CTA GGG GCC CAT GGC TCG AGC TTA AGT ACG TAT ATT
ALA CYS ARG SER THR LEU GLU ASP PRO ARG VAL PRO SER SER ASN SER SER ILE STOP
MCS: HindIII SphI PstI HincII AccI SalI XbaI BamHI SmaI XmaI KpnI SacI EcoRI
P lac
T18
pUT18
3023 bp
ori ColEI
bla (Amp) R
Derivative of
MCS: PstI HincII AccI SalI XbaI BamHI SmaI XmaI KpnI SacI EcoRI ClaI
P lac
T18
pUT18C
3017 bp
ori ColEI
bla (Amp) R
Derivative of pUC19

FIGURE 13

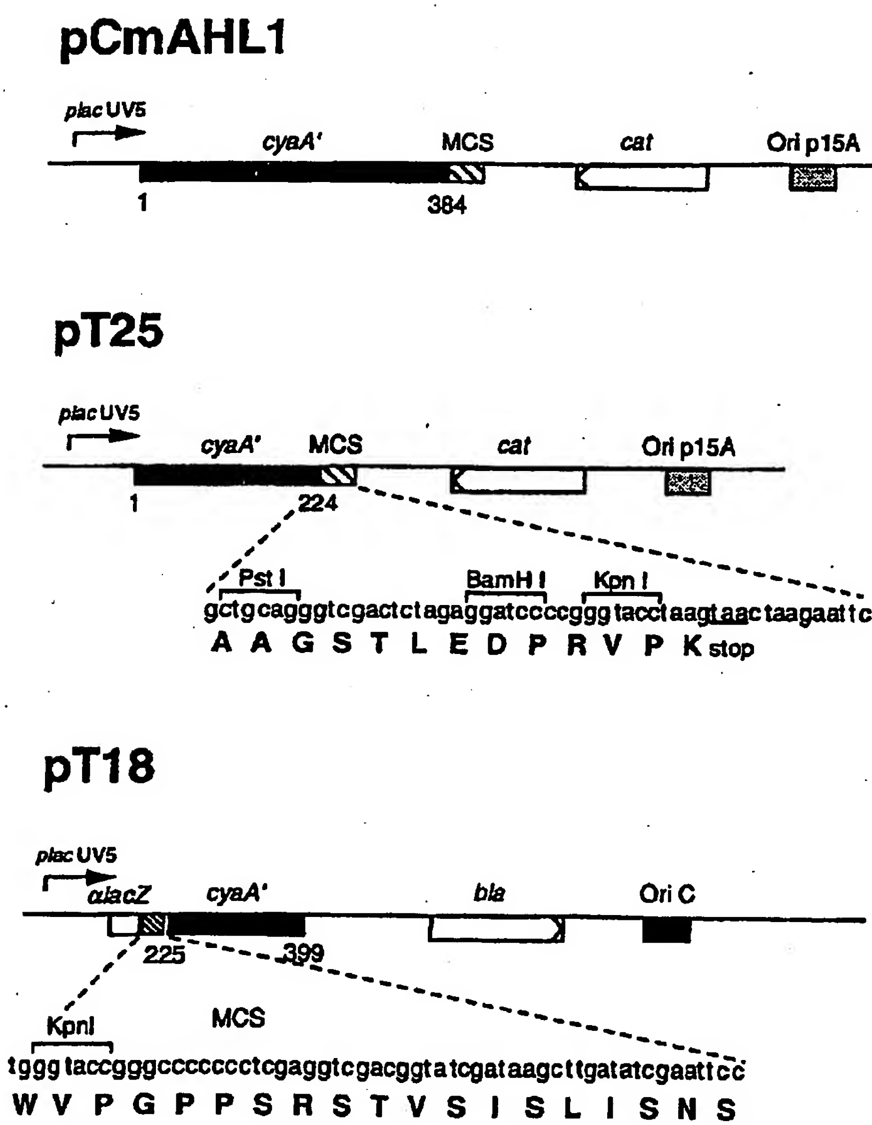
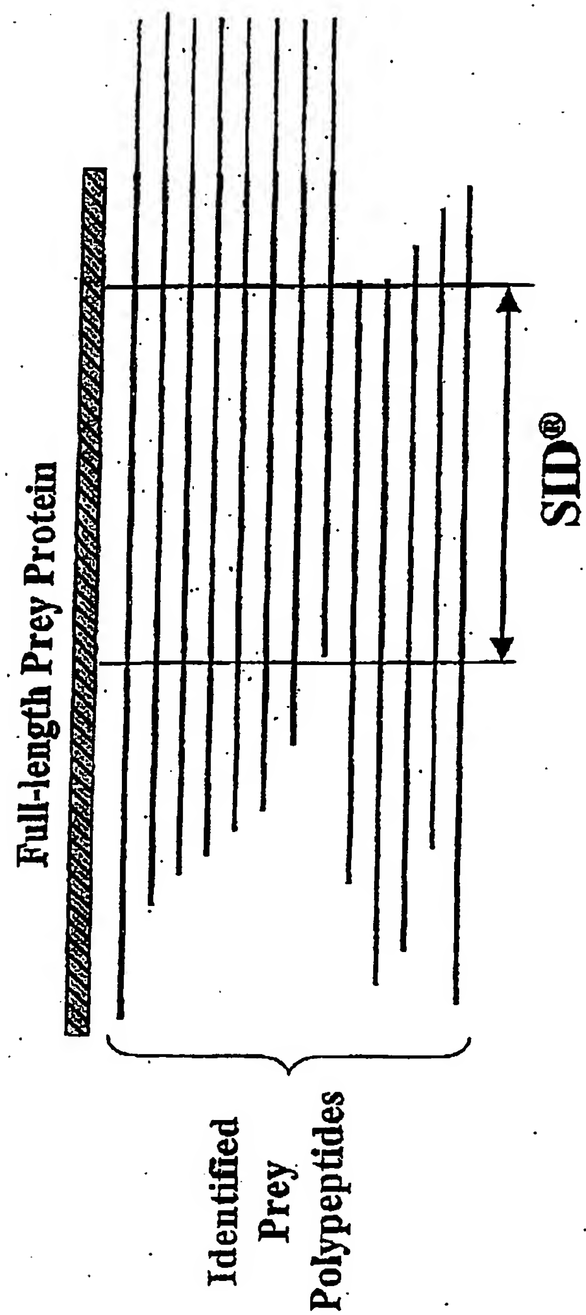
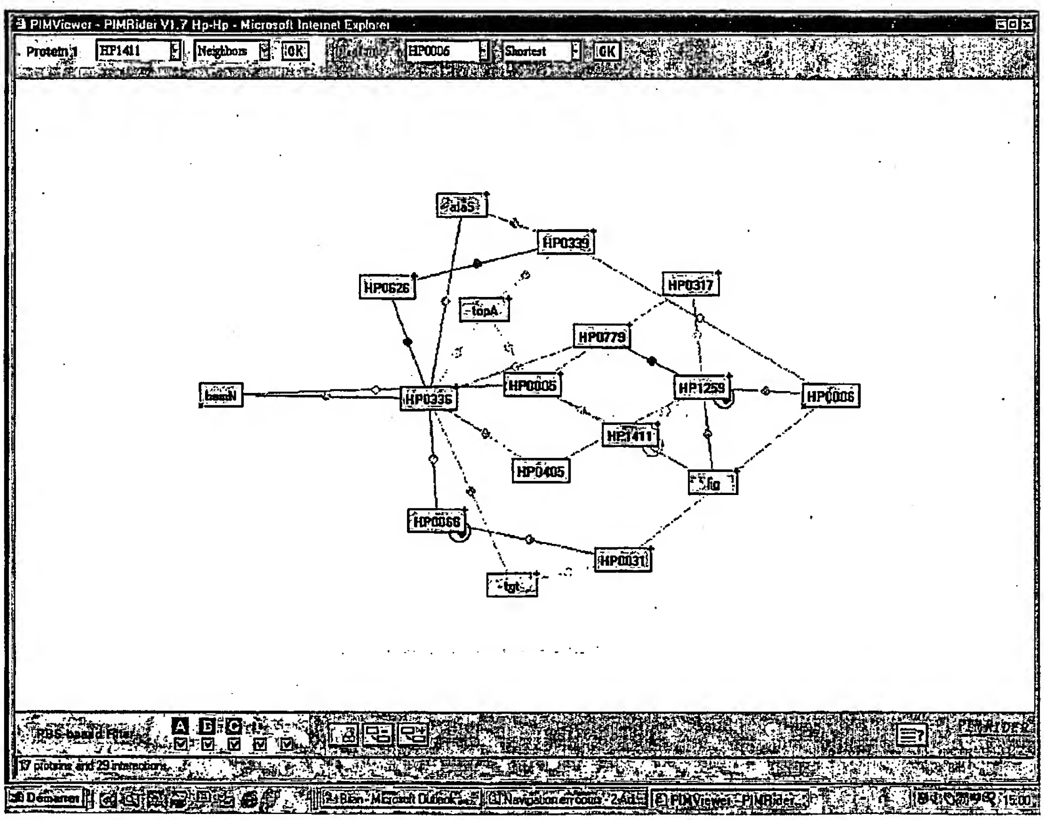

pCmAHL1
plac UV5
cyaA'
MCS
cat
Ori p15A
1
384
pT25
plac UV5
cyaA'
MCS
cat
Ori p15A
1
224
Pst I
BamH I
Kpn I
gctgcagggtcgactctagaggatccccgggtacctaagtaactaagaattc
A A G S T L E D P R V P K stop
pT18
plac UV5
αlacZ
cyaA'
bla
Ori C
225
399
KpnI
MCS
tgggtaccgggccccccctcgaggtcgacggtatcgataagcttgatatcgaattcc
W V P G P P S R S T V S I S L I S N S

FIGURE 14



Schematic representation of SID® determination

FIGURE 15



Example of Protein Interaction Map

FIGURE 16

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 02/03768

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12N15/12 C12N5/10 C07K14/47 A61K35/12 A61K38/17
A61K45/00 A61K48/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C12N C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, EMBASE, BIOSIS, SEQUENCE SEARCH

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 02 08425 A (KOSHY BEENA ;FINKEL KEVIN (US); GENAISSANCE PHARMACEUTICALS IN (US) 31 January 2002 (2002-01-31) * SEQ ID NO: 2 and 3 * the whole document ---	2,3
X	WO 94 02590 A (UNIV WAYNE STATE) 3 February 1994 (1994-02-03) * see SEQ ID NO: 1 and 2 * the whole document ---	2,3
X	EP 0 600 136 A (CENTRE NAT RECH SCIENT) 8 June 1994 (1994-06-08) * see Figure 3 * the whole document ---	2,3

-/--

[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
10 February 2003	09.05.03

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Hillenbrand, G

Form PCT/ISA/210 (second sheet) (July 1992)

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 02/03768

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication,where appropriate, of the relevant passages	Relevant to claim No.
X	EMORINE L J ET AL: "MOLECULAR CHARACTERIZATION OF THE HUMAN BETA3-ADRENERGIC RECEPTOR" SCIENCE, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,, US, vol. 245, 8 September 1989 (1989-09-08), pages 1118-1121, XP000942090 ISSN: 0036-8075 figure 1	2,3
Y	WO 99 42612 A (FROMONT MICHELINE ;LEGRAIN PIERRE (FR); PASTEUR INSTITUT (FR); RAI) 26 August 1999 (1999-08-26) cited in the application the whole document	2,3
Y	WO 96 34100 A (ZILBERFARB VLADIMIR ;CENTRE NAT RECH SCIENT (FR); STROSBERG ARTHUR) 31 October 1996 (1996-10-31) cited in the application the whole document	2,3
A	WO 00 65091 A (GOULD ROTHBERG BONNIE ;CURAGEN CORP (US)) 2 November 2000 (2000-11-02)	
A	WO 00 26374 A (SANOFI SYNTHELABO ;FRASER ROBERT (FR); GUILLOT ETIENNE (FR); ANGEL) 11 May 2000 (2000-05-11)	

INTERNATIONAL SEARCH REPORT

ernational application No.
PCT/EP 02/03768

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. [X] Claims Nos.: 22
because they relate to subject matter not required to be searched by this Authority, namely:

Rule 39.1(v) PCT - Presentation of information

2. [X] Claims Nos.: 1, 4-5, 17, 21
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

see FURTHER INFORMATION sheet PCT/ISA/210

3. [ ] Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. [ ] As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. [ ] As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. [ ] As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. [X] No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

2-3 (partially)

Remark on Protest

[ ] The additional search fees were accompanied by the applicant's protest.

[ ] No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 2-3 (partially)

Invention 1:

A polynucleotide (SEQ ID NO: 1) encoding a polypeptide (SEQ ID NO: 22) in adipocyte cells as defined in columns 1 and 4 in Table 2.

Inventions 2-11:

A polynucleotide (SEQ ID NO: 2-11) encoding a polypeptide (SEQ ID NO: 23-32) in adipocyte cells as defined in columns 1 and 4 in Table 2.

Inventions 12-21:

A polynucleotide (SEQ ID NO: 12-21) encoding a polypeptide (no SEQ ID NO: given) in adipocyte cells as defined in columns 1 and 4 in Table 2.

2. Claims 6-16, 18-20 (all partially)

Inventions 22-757:

A polynucleotide (SEQ ID NO: 34-771) encoding a polypeptide (SEQ ID NO: 772-1509) in adipocyte cells as defined in columns 1 and 4 in Table 2.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1, 4-5, 17, 21

Present claim 1 is directed to a complex between two interacting proteins in adipocyte cells as defined in columns 1 and 4 in Table 2. Table 2 embraces a list of around 800 different polypeptides. Consequently, claim 1 embraces so many possible complexe types that a meaningful search of said claim is impossible. Present claim 4 relates to a completely imprecise drafted method for selecting of modulating compounds in adipocyte cells. Claims 5 and 17 relate to an extremely large number of possible modulating compounds and pharmaceutical compositions comprising such "modulating compounds". In fact, the claims contain so many possible "modulating compounds" that a lack of clarity (and/or conciseness) within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claims impossible. This applies also to claim 21 directed to a protein chip comprising all of the polypeptides of Table 2.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP 02/03768

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 0208425	A	31-01-2002	AU	8072701 A	05-02-2002
			WO	0208425 A2	31-01-2002
WO 9402590	A	03-02-1994	US	5364772 A	15-11-1994
			WO	9402590 A1	03-02-1994
EP 0600136	A	08-06-1994	EP	0600136 A1	08-06-1994
			DE	69232486 D1	18-04-2002
			DE	69232486 T2	31-10-2002
WO 9942612	A	26-08-1999	US	6187535 B1	13-02-2001
			EP	1055000 A1	29-11-2000
			WO	9942612 A1	26-08-1999
			US	6531284 B1	11-03-2003
WO 9634100	A	31-10-1996	FR	2733513 A1	31-10-1996
			CA	2219996 A1	31-10-1996
			EP	0830450 A1	25-03-1998
			WO	9634100 A1	31-10-1996
			JP	11505414 T	21-05-1999
			US	6071747 A	06-06-2000
WO 0065091	A	02-11-2000	AU	4652600 A	10-11-2000
			WO	0065091 A2	02-11-2000
WO 0026374	A	11-05-2000	EP	1002865 A1	24-05-2000
			AU	2659600 A	22-05-2000
			WO	0026374 A2	11-05-2000